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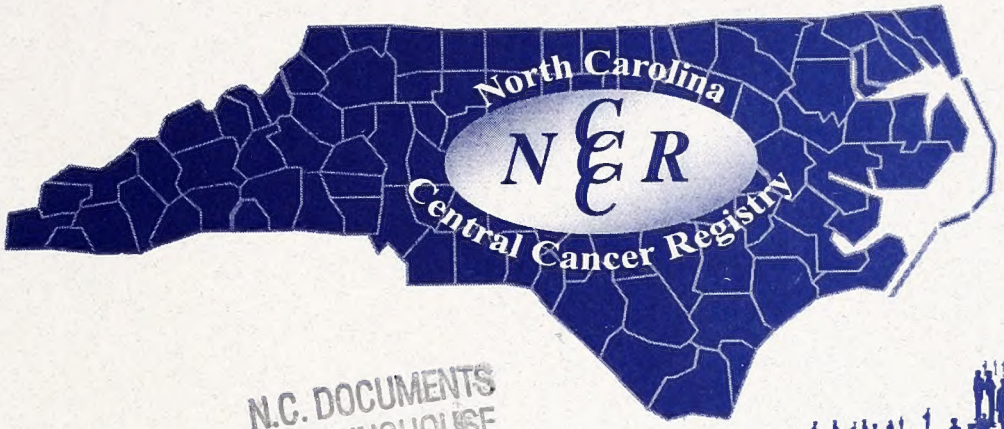
Cancer Incidence In North Carolina

1993



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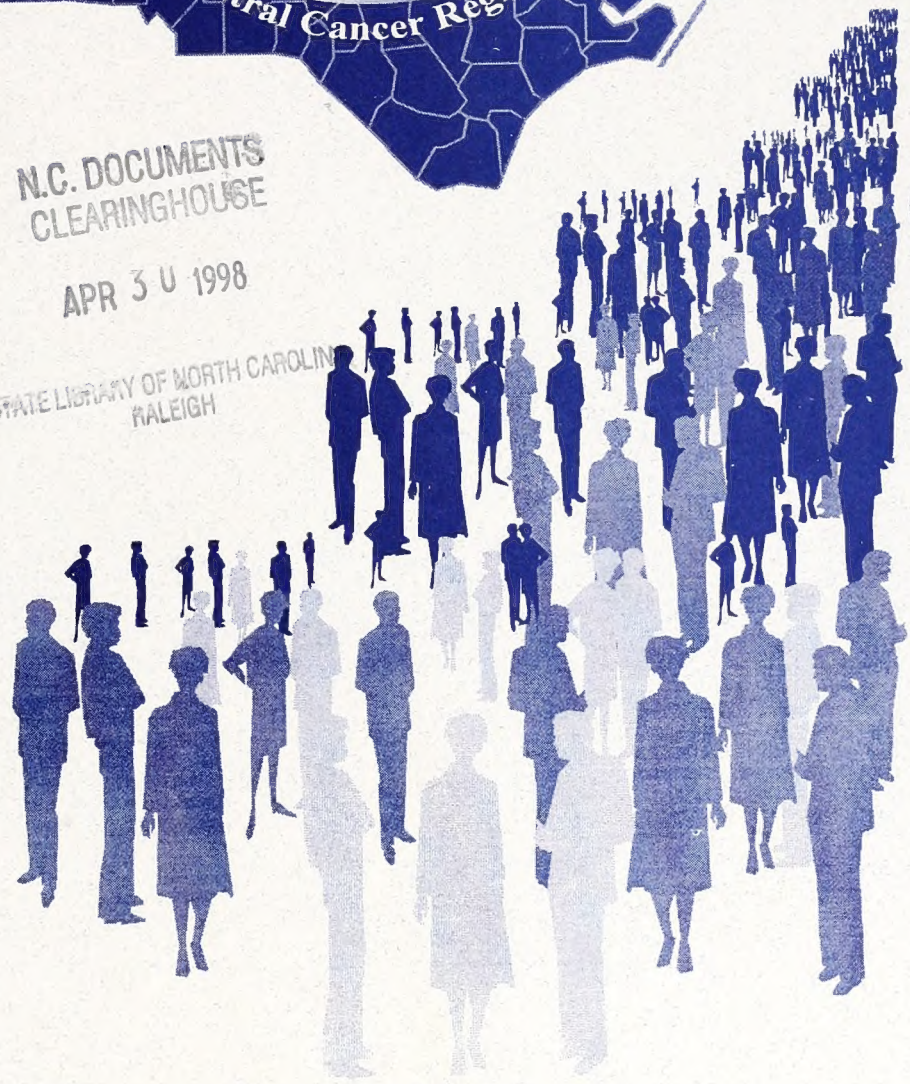

County-Specific Numbers

State Center for Health Statistics

CENTRAL CANCER REGISTRY

CANCER INCIDENCE IN NORTH CAROLINA 1993

N.C. Department of Environment, Health, and Natural Resources
State Center for Health Statistiscs
Raleigh, North Carolina

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Table of Contents

Introduction

- *Background* 1
- *Purpose* 1
- *Confidentiality* 1

Technical Notes

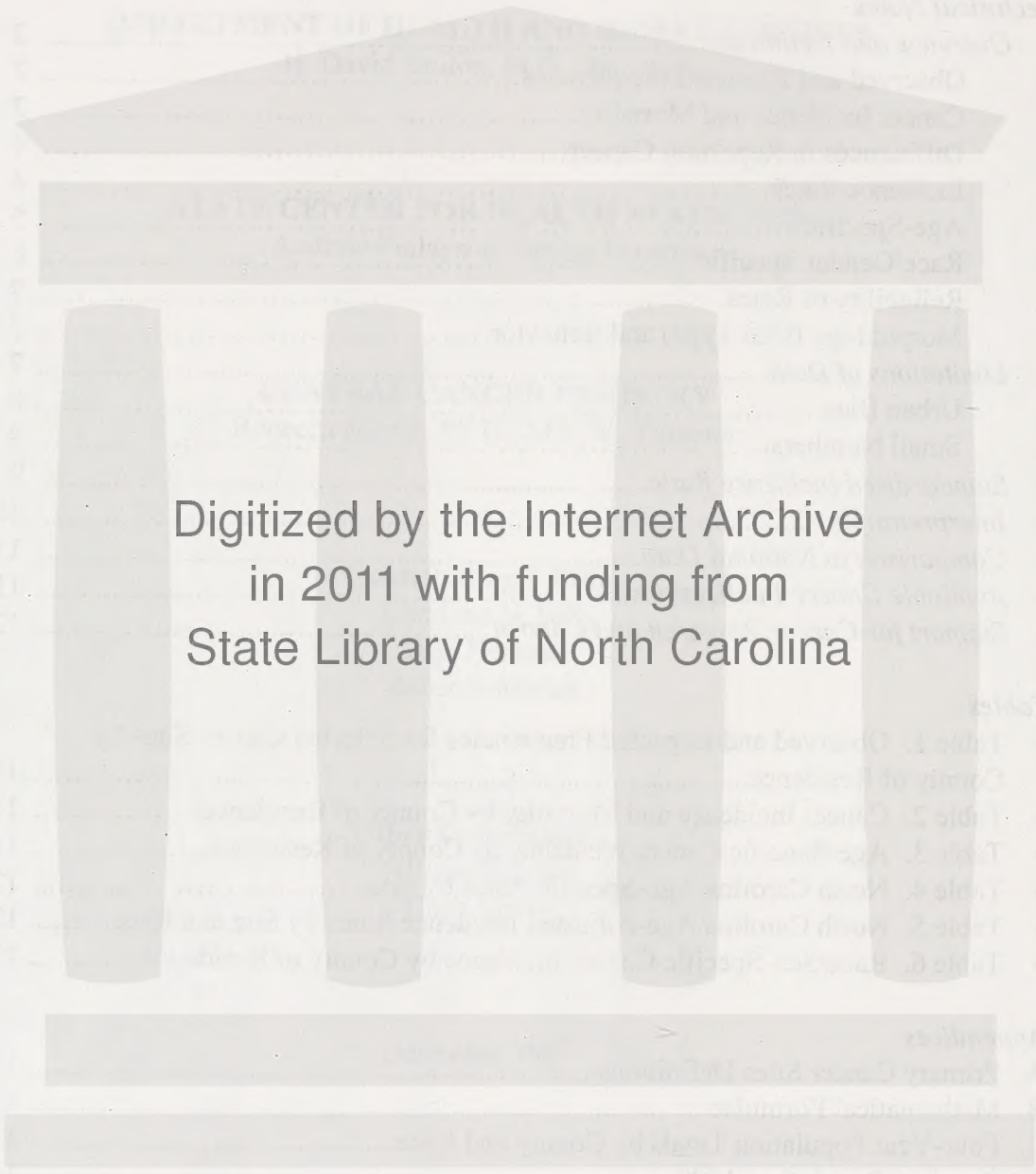
- *Overview and Definitions* 2
  - Observed and Expected Frequencies 2
  - Cancer Incidence and Mortality 2
  - Differences in Reporting Cancer 4
  - Incidence Rates 4
  - Age-Specific 5
  - Race/Gender Specific 6
  - Reliability of Rates 7
  - Morphology (Cell Type) and Behavior 7
- *Limitations of Data* 7
  - Urban Bias 8
  - Small Numbers 9
- *Standardized Incidence Ratio* 9
- *Interpretation* 10
- *Comparison to National Data* 11
- *Available Cancer Publications* 11
- *Support for Cancer Research and Control* 12

Tables

- Table 1. Observed and Expected Frequencies for Selected Cancer Sites by County of Residence 15
- Table 2. Cancer Incidence and Mortality by County of Residence 117
- Table 3. Age-Specific Cancer Incidence by County of Residence 119
- Table 4. North Carolina Age-Specific Rates by Site 121
- Table 5. North Carolina Age-Adjusted Incidence Rates by Site and Race 125
- Table 6. Race/Sex-Specific Cancer Incidence by County of Residence 131

Appendices

A. Primary Cancer Sites Definitions 135
B. Mathematical Formulae 137
C. Four-Year Population Totals by County and Race 139
D. Standard Population, 1990 142
E. North Carolina Central Cancer Registry Incidence Report 143



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Introduction

Background

The North Carolina Central Cancer Registry (CCR), located within the State Center for Health Statistics, was established in 1986. The CCR operates under the authority granted in North Carolina General Statute 130A-208.

Legislation declaring cancer to be a mandatorily reported disease in NC became effective in 1947. Authorized funding for establishing a registry, however, was not appropriated until 1986. Between 1986 and 1989, only 50-60 percent of the cases were reported each year. Calendar year 1990 is the first year for which relatively complete statewide reporting was achieved.

The CCR collects, analyzes and disseminates information on newly diagnosed cancer patients in North Carolina with respect to demographic and medical characteristics. There are 131 hospitals in North Carolina which diagnose and treat cancer patients; 35 of these hospitals have their own tumor registries. Of the 131 hospitals, 129 reported their 1993 incidence data to the CCR. Incidence data are reported to the CCR by use of either magnetic media (which most hospital registries use) or the Cancer Registry Incidence Report form (see Appendix E).

Purpose

Cancer in North Carolina 1993 is the fourth annual report of the CCR. The contents of this report represent a summary of the information collected on cancer diagnosed among North Carolina residents in 1993. Along with the 1993 incidence data, reported from the hospitals, this report includes a small number of melanoma cases that were not hospitalized and that dermatologists reported to the CCR. Mortality data were provided by the State Center of Health Statistics.

Confidentiality

The CCR is committed to preserving the confidentiality of information obtained for medical, educational, research, and statistical purposes. Thus the CCR demands strict confidentiality and the protection of the identity of both cancer patients and reporting sources in registry data. The CCR will not release any identifying information regarding any patients, hospitals or physicians without permission from the reporting facility.

Technical Notes

Overview and Definitions

This report presents frequency counts, age-specific rates, and age-adjusted rates to describe newly diagnosed cases of cancer and mortality due to cancer.

Observed and Expected Frequencies

The overall pattern of cancer incidence in North Carolina is similar to that of the nation. However, North Carolina has several interesting patterns of cancer that show marked differences from national rates. There is also regional variation within the state. Lung cancer is much more frequent in men than in women; but across the state, some counties show a higher than expected number of lung cancer cases among women. Cases of breast and colon cancer are relatively stable, but prostate cancer shows considerable variation. Counties with high prostate cancer rates are mostly those in the eastern part of the state where large proportions of the population are black. Blacks who have higher rates of prostate cancer than do white.

The 1990-93 North Carolina age/gender-specific incidence rates were applied to the population for each gender group to calculate the expected numbers of cases. The expected number of cases can be viewed as the number of cases that would have occurred if each county had the same rates of occurrence as the state. Race was not considered in this process due to the instability of rates resulting from small numbers of cases. There is a much smaller percentage of nonwhites in western and central North Carolina than in the eastern counties. Many of the eastern counties (with the larger percentages of nonwhites) are counties with relatively small populations. This report already shows many small numbers of cases when stratified by site, gender, and county. To add race as another stratification variable would result in many strata with so few cases that meaningful analysis would not be possible.

Observed and expected frequencies for selected cancer sites by county of residence are presented in Table 1.

Cancer Incidence and Mortality

Cancer incidence is the number of newly diagnosed cancer cases for each county whereas cancer mortality is the number of deaths due to cancer for each county (See Figure 3.).

The belief that mortality data are reliable is based on the assumption that death certificates provide complete and accurate data on all causes of death. However, the

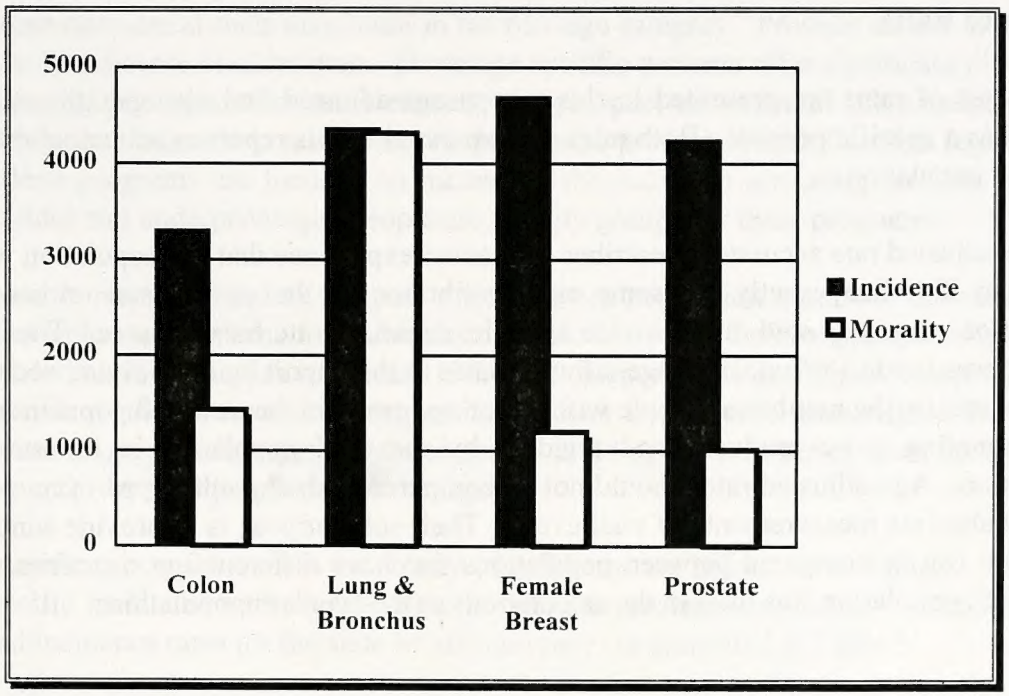
accuracy of recording the cause of death varies for many cancers. This variability arises partly from the fact that nearly half of all cancers are cured. At the time of death, the history of cancer may not be known by the physicians, or is considered not to have contributed to the death. Nonetheless, mortality data have been used widely to analyze cancer risk in population.

Instances of under-reporting of cancer incidence are known to have occurred. In some counties, and for some cancers (e.g., melanomas), under-reporting may lead to more cancer deaths being shown than indicated by incidence cases. Also, survival following a cancer diagnosis varies by cancer site. For example, survival for pancreatic cancer is very poor. Less than 15 percent of cases lives five years. By contrast, over 80 percent of people with breast cancer live five years. In populations with low use of health care services (e.g., rural and black populations), more cancers are diagnosed at advanced stages when therapies are less successful; or the cases may not be diagnosed until death.

The incidence/mortality ratio is a measure used by the CCR to evaluate its reporting. Overall, this ratio is around 2.0. Depending on the type of cancer, its survival rate, its ability to be detected through screening exams, and the presence of successful treatment options, this value may rise to 3.0 or 3.5. In populations where low use of health care services leads to diagnoses at more advanced stages, or for cancers that have poorer survival or no effective therapies (e.g., lung cancer), this ratio may drop to about 1.0.

Cancer incidence and mortality cases for each county are presented in Table 2.

Figure 3. North Carolina Incidence and Morality, 1993



Differences in Reporting Cancer Incidence and Mortality Data

Many people living near the Virginia border go outside North Carolina for health care. It is known that Norfolk and Danville, Virginia attract patients for secondary and tertiary care. The State of North Carolina has an exchange agreement with all 50 states for exchanging death certificates, but only has an exchange agreement with West Virginia, Virginia, South Carolina, Georgia, and Florida for exchanging cancer incidence data.

Because death certificate data are available more quickly than incidence data, the 1993 mortality data include deaths of North Carolina residents who died in other states, but the incidence data do not include cases diagnosed out-of-state. As a result, some counties will show more deaths than incidence cases in the data presented in Table 4. (e.g., Clay and Gates) and larger numbers of expected cases than observed cases (Table 1.). This is a particular problem for the northeastern counties and for Caswell and Rockingham counties. The exchange of data is an on-going process; updated information will be made available upon request for those counties affected by interstate migration for health care.

As noted above, some counties have been found to under-report their cancer incidence due to poor case-finding procedures. These counties, especially rural counties where small hospitals do not have the services of trained tumor registrars, may have inadequate case-finding. This results in incomplete reporting of new cancer cases. Death data are considered to be complete. This also contributes to what appears to be an excess of deaths compared to the number of cases for some cancer sites in some of the rural counties.

Incidence Rates

Two types of rates are presented in this report: age-adjusted and age specific, each of which has a specific purpose. Both rates are expressed in this report as an annual rate per 100,000 population.

An age-adjusted rate accurately describes the cancer experience that the population would have had if it had exactly the same age distribution as the comparison on standard population. Age-adjusted rates provide a single, summary rate for each area. The direct method was used to calculate all age-adjusted rates in this report by multiplying each age-specific rate by the number of people within that age group in the standard population and then summing these products, and dividing by the total population in the standard population. Age-adjusted rates should not be compared with any other type of rate or be used as absolute measurements of vital events; Their sole purpose is to provide summary rates that can be compared between populations that have different age structures. The 1990 U.S. population was used in the calculations as the standard population.

Age-Specific

The age-specific cancer incidence is the number of cancer cases that occur in the age range 0-19, 20-44, 45-64, 65+ for each county. Age-specific rates are used to compare rates between population groups of the same age and to examine age patterns for particular cancers. If the age categories are sufficiently narrow, these rates provide the best estimates of the risk of disease. As expected, age-specific rates have a general tendency to increase with age (See Figure 1.). North Carolina has attracted a large number of retirement-age people over the last decade. Understanding migration pattern is important for interpreting the data and is one reason for showing the data by age group. The largest concentrations of older-age residents are in the mountain counties, along the coast, and in the sandhills (along the mid-southern border).

Cancer patterns vary by age group. Children have a very different pattern of cancer than do adults. Leukemia, brain cancer, bone cancer, and lymphomas dominate in people under age 20. In general, North Carolina's pediatric cancer patterns are quite consistent with national patterns. Young adults (20-44) have an entirely different pattern of cancer than children. In this age group, lymphomas are even more common, as are some digestive and reproductive tissue cancers.

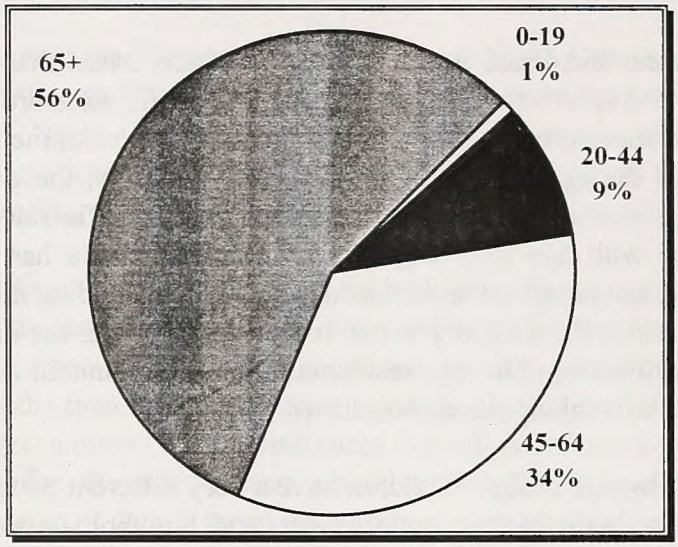
All of these cancers are quite rare and cancer rates in these ages are generally lower than for other age groups. In the middle ages (45-64), cancer rates begin to rise, and the common cancers (lung, breast, colon) emerge. The incursion of these cancers into earlier age groups is the subject of considerable research at this time. Much work is in progress in North Carolina on these trends.

All cancer rates are at their maximum in the 65+ age category. Prostate cancer is almost exclusively a disease of older men. These age-specific patterns offer significant direction for screening priorities. For most cancers, the prospect of a normal life expectancy is good when the diagnosis is made early in the disease process. North Carolina legislation and federal programs are focused on increasing the access to screening services in this state. Older and underprivileged people are priority groups for these programs.

Age-specific rates are used to compare rates between population groups of the same age and to examine age patterns for particular cancers. As stated before, these rates provide the best estimates of the risk of disease if the age categories are sufficiently narrow. The age-specific incidence rates demonstrate how cancer is a disease primarily of the older population. Age-specific rates are calculated by dividing the number of cases for a given age-group by the total population of that age.

Age-specific cancer incidences by county of residence are presented in Table 3. Cancer age-specific incidence rates for the state by site are presented in Table 4. Cancer age-adjusted incidence rates for the state by site and race are presented in Table 5.

Figure 1. North Carolina Age-Specific Cancer Incidence, 1993



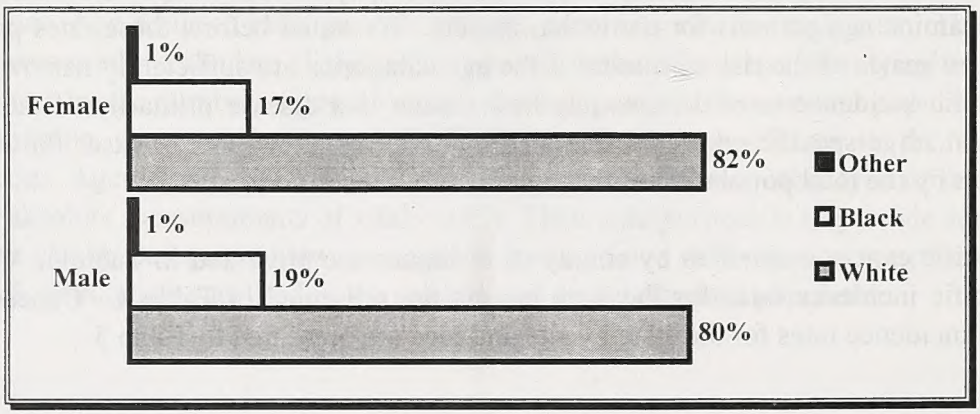
Race/Gender Specific

The race/gender-specific cancer incidence is the number of cancer cases that occurred in each race/gender group for each county. (See Figure 2.)

These data are provided because race is a highly relevant factor in interpreting cancer patterns in North Carolina. Earlier, the scarcity of nonwhite cases in many counties was cited as reason for not using site-specific incidence rates by race, as well as by gender. Yet, cancer rates vary by race, race distributions in the state vary, and health care use has been found to vary by race. Because cancer risk is strongly associated with lifestyle and behavior, differences in ethnic and cultural groups can provide clues to factors involved in the development of cancer such as dietary patterns, alcohol use, and sexual and reproductive behaviors involved in the development of cancer.

Cancer cases by race and gender for each county are presented in Table 6.

Figure 2. North Carolina Race/Gender Specific Cancer Incidence, 1993



Reliability of Rates

Precautions should always be taken when comparing any rates based on vital events and population. Both the size of the numbers and the characteristics of the population are important indicator of a rate's real value. Rates based on small numbers of events over a given period of time or for sparsely populated geographic areas should be viewed with caution. These rates show considerable variation from year to year, thus limiting their usefulness in comparisons and estimation of rare occurrences. (See section "Small Numbers").

Age-adjusted rates can offer a more refined measurement to compare experiences over geographic areas or time periods. However, there are limitations to their use and one should be familiar with these types of rates before using them. As already mentioned, age-adjusted rates are only to be used for comparison purposes and only if the same standard population was used in the calculation.

For assistance in interpreting these data, please contact the statistical staff at the CCR, (919)715-4555.

Morphology (Cell Type) and Behavior

Interpretations of melanoma data should be treated with caution since the thoroughness of case-finding is suspect due to the likelihood that cases may be treated outside of hospitals and not reported to the CCR. Data on basal and squamous cell skin cancers are not collected by the CCR unless they have spread to tissue beyond the original site.

Malignant melanoma may occur at many different body sites; however, this report focuses on melanoma of the skin. Also, lymphomas are not grouped consistently by all researchers. The specific morphology codes for these categories have been provided in the tables to clarify counting of these cases. The lymphoma category includes all lymphoma cases with the morphology codes shown regardless of body site.

Excesses of brain cancer have been found in various counties and further study of possible risk factors in this regard has been proposed. In these data, only malignant tumors are included. Data on benign and unspecified types are also reported to the CCR, but are not included in this report. Only invasive cervical cancer cases have been included; data on in situ cases are collected but are excluded from this report due to suspicions of incompleteness.

Limitations of Data

The user should not make county-to county comparisons of the data in this report. Tables where only numbers of cases are shown will be overwhelmingly affected by the population of the county. Also, under-reporting in areas close to neighboring states, and under-reporting for cancers that may not be diagnosed in hospitals must be considered when interpreting cancer incidence data. In addition, comparison of rates (computed with the number of cases and population data) would be problematic. The age distributions and racial percentages in counties vary considerably. These factors (age, race) have too much effect on the cancer data from county to county to allow useful comparisons of risk.

Consider a comparison of Moore and Cabarrus counties. In 1993 over 21 percent of the Moore county population was at least 65 years old, while less than 13 percent of the Cabarrus County population was 65 and over. A larger proportion of the Moore County population can be expected to have cancer than the Cabarrus County population just because of the difference in the age pattern for these two counties.

On the other hand, over 65 percent of Robeson County population was comprised of Blacks and American Indians while nearly 97 percent of the Watauga County population is white. This difference in the racial composition of the populations of the two counties can also have a marked influence on the patterns of cancer incidence and mortality. Age-adjusted rates control for differences in the age structures of populations, but they do not control for differences in racial composition.

Urban Bias

Cautions should be exercised in making interpretations based on comparison of observed and expected frequencies. The observed frequencies for some counties are substantially higher than the expected. These elevated observed frequencies are noteworthy since many of them occur among the counties containing major urban center*. Although it is possible that elevated cancer risk may result in a larger than expected number of observed cases of specific cancers, it is also possible that other factors may explain the difference.

For example, some people will name a nearby large city when asked their residence instead of naming the small community where they reside. Also, after being diagnosed, some cancer patients relocate closer to the hospital where they are being treated. Since the major cancer centers are located in cities, this can result in elevated observed frequencies in those counties and lower frequencies in counties where the patients lived prior to their diagnoses.

* Urban counties: Buncombe, Catawba, Mecklenburg, Gaston, Forsyth, Cabarrus, Rowan, Guilford, Wake, Durham, Orange, Cumberland, Alamance, Davidson, Onslow, and New Hanover. These counties all have a population density >190 residents per square mile.

Small Numbers

Small numbers of cases are a problem for statistical reports of health data. Even for the most common cancers, some counties can expect to have only one or two cases in a year. For example, Tyrell County, which has the smallest population of any county in the state, can expect to have only one case of female lung cancer each year (based on state lung cancer rates). Between 1990 and 1993, no cases of female lung cancer in Tyrell County have been reported to the CCR. If four cases should be reported in 1993, it would appear that the county had an excessive amount of lung cancer in 1993. However, over the four-year period, the county would average exactly what was expected.

All statistics are subject to chance variation. Rates based an unusually small or large number of events over a specified period of time or for sparsely populated geographic area should be of particular concern and caution. When small events or populations are evident in studying rates, multiple-year summary rates will sometimes provide a much better perspective or measurement of an outcome. Expanding the period of time studied enlarges the absolute numbers and adds more credence to a statement regarding a rate.

Because of the natural variation in the occurrence of disease, great care must be exercised in describing as "excessive" a larger number of observed than expected cases when very few are expected (e.g., less than 10 cases). This is especially true for rare cancers and for counties with small population. Even at the state level, data for rare cancers are highly variable from year to year.

Standardized Incidence Ratio

To interpret the observed versus expected data from these tables, divide the observed number of cases by the expected number. Because these incidence data are age-adjusted, this ratio is called a Standardized Incidence Ratio (SIR). If the observed number is greater than the expected value, the SIR will be greater than 1.0. This result suggests an excess of cancer. The SIRs for a gender group could be calculated and then ranked to determined priority cancer concerns. If such a ranking were prepared, about as many SIRs greater than 1.0 would be found as those less than 1.0. Such "balancing" of patterns is common in nature. This "balancing" argues against making any interpretation based on the one SIR. The entire gender-specific pattern for cancer in a county should be considered, since these data represent only one year and year-to-year variation can be large.

In evaluating SIRs, a paramount question is "how large" must a SIR value be to consider it meaningful. There is a statistical means of answering this question. Generally, a SIR is meaningfully large if there is at least a 95 percent chance that the SIR is truly greater than 1.0. The determination that a SIR is truly greater than 1.0 uses a test criterion called the **95 percent "Lower Confidence Limit (LCL)"** and is computed by:

$$LCL = [\sqrt{obs} - (1.64 * 0.5)]^2 / exp$$

[Source: Franklin, H. and Krankowitz, W. (1987). Cancer Cluster in the Workplace. *Journal of Occupational Medicine* 29(12): 949-52.]

If the 95 percent LCL is greater than 1.0, then the calculated SIR may be meaningfully large and the SIR represents a "statistically significant" excess.

This same formula may be used to evaluate a SIR below 1.0 simply be changing the minus to a plus and calculating the 95 percent "Upper Confidence Limit (UCL)." If the UCL is below 1.0, then the SIR represents a statistically significant low risk of cancer.

The 1.64 value in this formula arises from the decision to evaluate a 95 percent confidence limit. For further guidance with manipulating this formula, consult a statistician. Common values for other confidence limits using this process are 1.96 for a 97.5 percent confidence limit; 2.33 for a 99 percent confidence limit, etc. Further assistance with interpreting these data or calculating these measures is available upon request.

The pivotal role of the expected value is obvious in the formula above. **Another precaution:** Be cautious when the expected value is small. An expected value that is a fraction (e.g., 0.5) is meaningless. Cancer cases are whole people. Consider an extreme instance where one cancer case occurs with 0.1 cases expected. Without regard for this consideration of small numbers, this observation could be misrepresented as a 10-fold excess. As a rule of thumb, five expected case is a good cutoff; below that the numbers are considered too small to be reliable. Ten cases is the number that is preferred for analysis by the State Center for Health Statistics.

Interpretation

This descriptive report is intended to serve as a baseline report for future reference. Because of the limitations described above and because the report represents only one year of data, it should not be regarded as a definitive description of the cancer incidence in North Carolina. With additional training of hospital staff and with collaboration from neighboring states, some of the problems of under-reporting have declined. Although there are important limitations in the use of these data, the observed number of cases and a comparison of the observed and expected frequencies within a gender group in a specific county can be used for:

- planning health services at the county level;
- identifying cancer representing high incidence within a county;
- educating the public;
- motivating hospitals to report incidence data accurately and in a timely manner; and

- encouraging more hospitals to organize tumor registries to provide better service to their cancer patients.

Comparison to National Data

This report was prepared to provide data for evaluation of cancer incidence and mortality patterns in North Carolina. While comparisons to national data would be desirable, there is no reliable national database for comparison with North Carolina 1993 observed incidence cases.

The National Cancer Institute operates a series of population-based registries (the Surveillance, Epidemiology and End Results [SEER] registries). However, the most recent available SEER data are for 1973-1992. It is not valid to compare total population rates with the corresponding ones provided by the SEER program, since the racial compositions of the two populations are dissimilar. These SEER registries are intended to provide a 14 percent sample of the nation. The percentage of nonwhites in the SEER population is quite different from the percentage of nonwhites in North Carolina. However, a comparison of the North Carolina and SEER data may be obtained by request. In general, North Carolina cancer rates are quite consistent with the nation's, except for variations which are most likely due to the influence of larger rural and black populations in North Carolina.

Available Cancer Information

Cancer is one of only two leading causes of death in the United States that is increasing (diabetes is the other). This increase is largely the result of the aging of the population and the decline in mortality from other causes of death (e.g., heart disease and stroke). It is estimated that by the year 2000, cancer will be the leading cause of death in the U.S.

Cancer is expected to strike one in three people sometime during their lifetime. For more information about cancer, contact a local office of the American Cancer Society or call 1-800-ACS-2345. Many communities also have hospital-based cancer programs through which local data and/or cancer-related services may be obtained. In many counties, local health departments have active cancer control programs. Another source of information on cancer is the Cancer Information Service, 1-800-4CANCER (1-800-422-6237). The Cancer Information Service, located at Duke University, is a national program that provides cancer information.

The CCR produces other reports on cancer in North Carolina. A notable one is *North Carolina Cancer Facts and Figures*. This report is published annually in collaboration with the North Carolina Division of the American Cancer Society. Also, other units with the State Center for Health Statistics (SCHS) publish many reports on other diseases and

on health care and environmental quality measures. For more information about other reports from the CCR please call (919)715-4555 or other sections of the SCHS, please call (919)733-4728, or write:

State Center for Health Statistics
P.O. Box 29583
Raleigh, NC 27626-0538

Support for Cancer Research and Control

The CCR is actively involved with cancer research programs at universities in North Carolina, as well as with federal agencies and research institutes located within the state. One feature of this participation is the rapid identification of cancer patients for projects that are designed to collect information before the patient's first course of treatment is completed (e.g., genetic studies). Several organizations in North Carolina work to prevent cancer or to provide for early detection.

One program to promote access to cancer screening tests is the Breast and Cervical Cancer Control Program located in the Division of Health Promotion. The CCR provides statistical and data analysis support for the state's Cancer Control Program that funds cancer treatment for economically disadvantaged North Carolinians. Also, the CCR is associated with many organizations such as the American Cancer Society, the Cancer Committee of the North Carolina Medical Society, and the state's Advisory Committee for Cancer Coordination and Control.

TABLES

Cancer Incidence in North Carolina 1993

Table 1. Observed Frequencies For Cancer Sites

North Carolina 1993

Site	Female	Male
Oral Cavity & Pharynx	***220***	***437***
Lips	9	38
Tongue	50	80
Salivary Glands	12	37
Floor of Mouth	24	37
Nasopharynx	12	22
Oropharynx	3	16
Hypopharynx	13	63
Other Mouth & Pharynx	97	144
Digestive System	***2473***	***2566***
Esophagus	86	251
Stomach	185	245
Small Intestine	42	26
Colon & Rectum	1691	1609
Anus & Anal Canal	45	25
Liver & Intrahepatic Bile Duct	44	76
Gallbladder	36	20
Pancreas	278	250
Other Digestive Organs	66	64
Respiratory System	***1631***	***3160***
Larynx	65	278
Lung & Bronchus	1526	2811
Other Respiratory Organs	40	71
Bones and Joints	***19***	***27***
Soft Tissues	***72***	***79***
Melanoma of Skin	***359***	***420***
Breast	***4683***	***27***
Invasive Breast	4136	25
In Situ Breast	547	2

Table 1. Observed Frequencies For Cancer Sites

North Carolina 1993

Site	Female	Male
Female Genital Organs	***1811***	-
Cervix Uteri	392	-
Uterus (Corpus, NOS)	738	-
Ovary	452	-
Other Female Genital Organs	229	-
Male Genital Organs	-	***4408***
Prostate	-	4225
Testis	-	146
Penis	-	31
Other Male Genital Organs	-	6
Urinary System	***536***	***1153***
Bladder	268	728
Kidney & Renal Pelvis	242	388
Ureter	22	29
Other Urinary System	4	8
Eye & Orbit	***27***	***34***
Brain & CNS	***187***	***194***
Endocrine System	***214***	***82***
Thyroid	192	65
Other Endocrine & Thymus	22	17
Lymphoma	***487***	***538***
Hodgkin's Disease	69	85
Non-Hodgkin's	418	453
Multiple Myeloma	***150***	***147***
Leukemia	***218***	***306***
Acute Lymphocytic	31	49
Chronic Lymphocytic	47	87
Acute Myeloid	82	82
Chronic Myeloid	20	39
Other Leukemia	38	49
Ill-Defined & Unspecified	***418***	***468***
All Cancers	***13505***	***14046***

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

ALAMANCE COUNTY 1993

Site	*ICD-O2*	*Male*		*Female*	
		Observed	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	12	7.9	2	4.2
Esophagus	(150-159)	8	4.6	2	1.7
Stomach	(160-169)	3	4.6	2	3.6
Colon & Rectum	(180-209,260)	31	30.4	34	32.7
Liver & Bile Ducts	(220-221)	-	1.4	-	0.8
Gallbladder & Biliary Tract	(239-249)	-	1.1	1	1.2
Pancreas	(250-259)	6	4.8	6	5.4
Digestive Organs	(170-179,210-218,268-269,480-489)	-	1.3	4	2.4
Larynx	(320-329)	10	5.2	2	1.2
Bronchus & Lung	(340-349)	46	53.2	24	29.1
Respiratory Organs	(300-319,339,381-399)	1	1.3	1	0.7
Bones & Joints	(400-419)	-	0.4	-	0.3
Soft Tissue	(380,470-479,490-499)	2	1.4	2	1.3
Melanoma of Skin	(8720-8790)*	22	7.5	17	6.4
Breast	(500-509)	-	0.5	93	86.5
Cervix Uteri	(530-539)	-	-	7	6.9
Uterus (Corpus, NOS)	(540-559)	-	-	11	13.9
Ovary	(569)	-	-	10	8.4
Prostate	(619)	105	81.6	-	-
Testis	(620-629)	3	2.2	-	-
Bladder	(670-679)	10	13.9	4	5.2
Kidney & Renal Pelvis	(640-659)	7	7.2	6	4.6
Brain & CNS	(700-729)	5	3.4	1	3.4
Endocrine System	(379,739-759)	2	1.4	10	3.7
Lymphoma	(9590-9714)*	12	9.6	9	9.1
Multiple Myeloma	(9730,9732)*	3	2.8	4	2.9
Leukemia	(9800-9941)*	12	5.5	10	4
All Cancers	(000-809)	312	263.8	277	252.8

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

ALEXANDER COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	1	2	1	0.9
Esophagus	(150-159)	2	1.1	2	0.3
Stomach	(160-169)	-	1	-	0.7
Colon & Rectum	(180-209,260)	5	6.9	4	6.8
Liver & Bile Ducts	(220-221)	-	0.3	-	0.2
Gallbladder & Biliary Tract	(239-249)	-	0.3	-	0.2
Pancreas	(250-259)	-	1.1	1	1.1
Digestive Organs	(170-179,210-218,268-269,480-489)	1	0.3	-	0.5
Larynx	(320-329)	1	1.2	-	0.3
Bronchus & Lung	(340-349)	8	12.2	4	6.2
Respiratory Organs	(300-319,339,381-399)	1	0.3	-	0.2
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.3	-	0.3
Melanoma of Skin	(8720-8790)*	-	1.9	2	1.5
Breast	(500-509)	-	0.1	13	19.4
Cervix Uteri	(530-539)	-	-	-	1.6
Uterus (Corpus, NOS)	(540-559)	-	-	4	3
Ovary	(569)	-	-	4	1.9
Prostate	(619)	26	17.8	-	-
Testis	(620-629)	-	0.6	-	-
Bladder	(670-679)	6	3.1	-	1.1
Kidney & Renal Pelvis	(640-659)	-	1.7	1	1
Brain & CNS	(700-729)	1	0.8	-	0.8
Endocrine System	(379,739-759)	2	0.4	4	0.9
Lymphoma	(9590-9714)*	7	2.3	3	2
Multiple Myeloma	(9730,9732)*	-	0.6	-	0.6
Leukemia	(9800-9941)*	2	1.3	1	0.9
All Cancers	(000-809)	65	60.2	47	55.3

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

ALLEGHANY COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	2	0.8	-	0.4
Esophagus	(150-159)	-	0.5	-	0.2
Stomach	(160-169)	1	0.5	-	0.4
Colon & Rectum	(180-209,260)	2	3.3	2	3.5
Liver & Bile Ducts	(220-221)	-	0.1	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.1	-	0.1
Pancreas	(250-259)	-	0.5	1	0.6
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.1	-	0.2
Larynx	(320-329)	1	0.5	-	0.1
Bronchus & Lung	(340-349)	1	5.6	3	3
Respiratory Organs	(300-319,339,381-399)	-	0.1	-	0.1
Bones & Joints	(400-419)	-	-	-	-
Soft Tissue	(380,470-479,490-499)	-	0.1	-	0.1
Melanoma of Skin	(8720-8790)*	-	0.8	-	0.6
Breast	(500-509)	-	0.1	4	8.6
Cervix Uteri	(530-539)	-	-	-	0.6
Uterus (Corpus, NOS)	(540-559)	-	-	-	1.4
Ovary	(569)	-	-	1	0.8
Prostate	(619)	4	8.9	-	-
Testis	(620-629)	-	0.2	-	-
Bladder	(670-679)	-	1.5	1	0.6
Kidney & Renal Pelvis	(640-659)	-	0.7	-	0.5
Brain & CNS	(700-729)	-	0.3	1	0.3
Endocrine System	(379,739-759)	-	0.1	1	0.3
Lymphoma	(9590-9714)*	-	1	-	0.9
Multiple Myeloma	(9730,9732)*	-	0.3	-	0.3
Leukemia	(9800-9941)*	-	0.6	1	0.4
All Cancers	(000-809)	11	27.8	16	25.5

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

ANSON COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	-	1.6	-	0.9
Esophagus	(150-159)	1	0.9	-	0.4
Stomach	(160-169)	-	1	1	0.8
Colon & Rectum	(180-209,260)	4	6.4	9	7.2
Liver & Bile Ducts	(220-221)	-	0.3	1	0.2
Gallbladder & Biliary Tract	(239-249)	-	0.2	1	0.3
Pancreas	(250-259)	2	1	2	1.2
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.3	-	0.5
Larynx	(320-329)	3	1	-	0.3
Bronchus & Lung	(340-349)	9	10.9	4	6.2
Respiratory Organs	(300-319,339,381-399)	-	0.3	-	0.2
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	1	0.3	1	0.3
Melanoma of Skin	(8720-8790)*	1	1.5	1	1.4
Breast	(500-509)	-	0.1	21	18.3
Cervix Uteri	(530-539)	-	-	-	1.5
Uterus (Corpus, NOS)	(540-559)	-	-	3	3
Ovary	(569)	-	-	3	1.8
Prostate	(619)	15	17	-	-
Testis	(620-629)	-	0.4	-	-
Bladder	(670-679)	2	2.9	2	1.1
Kidney & Renal Pelvis	(640-659)	1	1.5	-	1
Brain & CNS	(700-729)	1	0.7	1	0.7
Endocrine System	(379,739-759)	-	0.3	1	0.8
Lymphoma	(9590-9714)*	2	2	3	2
Multiple Myeloma	(9730,9732)*	-	0.6	2	0.6
Leukemia	(9800-9941)*	2	1.2	1	0.9
All Cancers	(000-809)	45	54.7	60	54.6

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

ASHE COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	4	1.9	1	0.9
Esophagus	(150-159)	-	1.1	1	0.4
Stomach	(160-169)	-	1.2	-	0.8
Colon & Rectum	(180-209,260)	3	7.6	7	7.4
Liver & Bile Ducts	(220-221)	-	0.3	-	0.2
Gallbladder & Biliary Tract	(239-249)	1	0.3	-	0.3
Pancreas	(250-259)	-	1.2	-	1.2
Digestive Organs	(170-179,210-218,268-269,480-489)	1	0.3	-	0.5
Larynx	(320-329)	1	1.3	-	0.3
Bronchus & Lung	(340-349)	18	13	3	6.5
Respiratory Organs	(300-319,339,381-399)	-	0.3	-	0.2
Bones & Joints	(400-419)	-	0.1	1	0.1
Soft Tissue	(380,470-479,490-499)	1	0.3	-	0.3
Melanoma of Skin	(8720-8790)*	2	1.8	3	1.4
Breast	(500-509)	-	0.1	13	19.1
Cervix Uteri	(530-539)	-	-	3	1.5
Uterus (Corpus, NOS)	(540-559)	-	-	5	3.1
Ovary	(569)	-	-	4	1.9
Prostate	(619)	28	20.3	-	-
Testis	(620-629)	-	0.4	-	-
Bladder	(670-679)	4	3.5	2	1.2
Kidney & Renal Pelvis	(640-659)	3	1.7	1	1
Brain & CNS	(700-729)	-	0.8	-	0.7
Endocrine System	(379,739-759)	-	0.3	3	0.8
Lymphoma	(9590-9714)*	3	2.2	2	2
Multiple Myeloma	(9730,9732)*	-	0.7	1	0.7
Leukemia	(9800-9941)*	-	1.3	-	0.9
All Cancers	(000-809)	69	64.6	51	56.3

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

AVERY COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	1	1.1	-	0.5
Esophagus	(150-159)	-	0.7	-	0.2
Stomach	(160-169)	-	0.7	1	0.5
Colon & Rectum	(180-209,260)	-	4.4	5	4.2
Liver & Bile Ducts	(220-221)	1	0.2	-	0.1
Gallbladder & Biliary Tract	(239-249)	1	0.2	-	0.1
Pancreas	(250-259)	2	0.7	-	0.7
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.2	-	0.3
Larynx	(320-329)	-	0.7	-	0.2
Bronchus & Lung	(340-349)	2	7.6	3	3.7
Respiratory Organs	(300-319,339,381-399)	1	0.2	2	0.1
Bones & Joints	(400-419)	-	0.1	-	-
Soft Tissue	(380,470-479,490-499)	-	0.2	-	0.2
Melanoma of Skin	(8720-8790)*	1	1.1	1	0.8
Breast	(500-509)	2	0.1	7	11
Cervix Uteri	(530-539)	-	-	-	0.9
Uterus (Corpus, NOS)	(540-559)	-	-	1	1.8
Ovary	(569)	-	-	-	1.1
Prostate	(619)	10	11.8	-	-
Testis	(620-629)	1	0.3	-	-
Bladder	(670-679)	2	2	1	0.7
Kidney & Renal Pelvis	(640-659)	2	1	1	0.6
Brain & CNS	(700-729)	1	0.5	-	0.4
Endocrine System	(379,739-759)	-	0.2	1	0.5
Lymphoma	(9590-9714)*	2	1.4	2	1.2
Multiple Myeloma	(9730,9732)*	-	0.4	1	0.4
Leukemia	(9800-9941)*	-	0.8	1	0.5
All Cancers	(000-809)	29	38.1	27	32.4

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

BEAUFORT COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	2	3	3	1.6
Esophagus	(150-159)	-	1.8	2	0.6
Stomach	(160-169)	1	1.8	1	1.4
Colon & Rectum	(180-209,260)	6	11.5	14	12.9
Liver & Bile Ducts	(220-221)	-	0.5	-	0.3
Gallbladder & Biliary Tract	(239-249)	2	0.4	-	0.5
Pancreas	(250-259)	2	1.8	2	2.1
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.5	-	0.9
Larynx	(320-329)	-	2	-	0.5
Bronchus & Lung	(340-349)	21	20.2	10	11.3
Respiratory Organs	(300-319,339,381-399)	-	0.5	1	0.3
Bones & Joints	(400-419)	-	0.2	-	0.1
Soft Tissue	(380,470-479,490-499)	1	0.5	-	0.5
Melanoma of Skin	(8720-8790)*	3	2.9	4	2.5
Breast	(500-509)	-	0.2	25	33.7
Cervix Uteri	(530-539)	-	-	3	2.7
Uterus (Corpus, NOS)	(540-559)	-	-	5	5.4
Ovary	(569)	-	-	1	3.3
Prostate	(619)	19	30.7	-	-
Testis	(620-629)	-	0.8	-	-
Bladder	(670-679)	6	5.2	4	2
Kidney & Renal Pelvis	(640-659)	5	2.7	1	1.8
Brain & CNS	(700-729)	1	1.3	-	1.3
Endocrine System	(379,739-759)	-	0.5	-	1.4
Lymphoma	(9590-9714)*	1	3.6	4	3.5
Multiple Myeloma	(9730,9732)*	2	1	1	1.1
Leukemia	(9800-9941)*	1	2.1	1	1.6
All Cancers	(000-809)	77	99.7	89	98.5

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

BERTIE COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	-	1.3	-	0.8
Esophagus	(150-159)	-	0.8	-	0.3
Stomach	(160-169)	1	0.8	-	0.6
Colon & Rectum	(180-209,260)	5	5.2	5	5.8
Liver & Bile Ducts	(220-221)	-	0.2	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.2	-	0.2
Pancreas	(250-259)	2	0.8	4	1
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.2	-	0.4
Larynx	(320-329)	-	0.9	-	0.2
Bronchus & Lung	(340-349)	11	9.1	2	5.3
Respiratory Organs	(300-319,339,381-399)	-	0.2	-	0.1
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.2	-	0.2
Melanoma of Skin	(8720-8790)*	-	1.3	-	1.1
Breast	(500-509)	1	0.1	8	15.4
Cervix Uteri	(530-539)	-	-	1	1.2
Uterus (Corpus, NOS)	(540-559)	-	-	3	2.5
Ovary	(569)	-	-	2	1.5
Prostate	(619)	9	14.1	-	-
Testis	(620-629)	-	0.4	-	-
Bladder	(670-679)	2	2.4	-	0.9
Kidney & Renal Pelvis	(640-659)	-	1.2	-	0.8
Brain & CNS	(700-729)	-	0.6	-	0.6
Endocrine System	(379,739-759)	-	0.2	-	0.7
Lymphoma	(9590-9714)*	1	1.6	2	1.6
Multiple Myeloma	(9730,9732)*	-	0.5	-	0.5
Leukemia	(9800-9941)*	1	1	1	0.7
All Cancers	(000-809)	33	45.2	28	45

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

BLADEN COUNTY 1993

Site	*ICD-O2*	*Male*		*Female*	
		Observed	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	-	2	1	1.1
Esophagus	(150-159)	5	1.2	2	0.4
Stomach	(160-169)	2	1.2	-	0.9
Colon & Rectum	(180-209,260)	5	7.7	7	8.4
Liver & Bile Ducts	(220-221)	-	0.4	-	0.2
Gallbladder & Biliary Tract	(239-249)	-	0.3	-	0.3
Pancreas	(250-259)	1	1.2	-	1.4
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.3	-	0.6
Larynx	(320-329)	-	1.3	-	0.3
Bronchus & Lung	(340-349)	18	13.3	4	7.5
Respiratory Organs	(300-319,339,381-399)	1	0.3	1	0.2
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	1	0.3	-	0.3
Melanoma of Skin	(8720-8790)*	-	1.9	-	1.7
Breast	(500-509)	-	0.1	26	22.4
Cervix Uteri	(530-539)	-	-	5	1.8
Uterus (Corpus, NOS)	(540-559)	-	-	3	3.6
Ovary	(569)	-	-	2	2.2
Prostate	(619)	18	20.3	-	-
Testis	(620-629)	1	0.5	-	-
Bladder	(670-679)	1	3.5	-	1.3
Kidney & Renal Pelvis	(640-659)	2	1.8	1	1.2
Brain & CNS	(700-729)	3	0.9	1	0.9
Endocrine System	(379,739-759)	-	0.4	-	1
Lymphoma	(9590-9714)*	4	2.4	-	2.3
Multiple Myeloma	(9730,9732)*	2	0.7	-	0.7
Leukemia	(9800-9941)*	2	1.4	-	1
All Cancers	(000-809)	68	66.2	57	65.2

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

BRUNSWICK COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	5	4.8	1	2.1
Esophagus	(150-159)	5	2.9	1	0.8
Stomach	(160-169)	1	2.7	2	1.6
Colon & Rectum	(180-209,260)	16	17.9	17	15.2
Liver & Bile Ducts	(220-221)	1	0.9	-	0.4
Gallbladder & Biliary Tract	(239-249)	-	0.7	1	0.6
Pancreas	(250-259)	1	2.9	1	2.6
Digestive Organs	(170-179,210-218,268-269,480-489)	2	0.7	1	1.2
Larynx	(320-329)	6	3.1	-	0.7
Bronchus & Lung	(340-349)	39	32.8	18	15.2
Respiratory Organs	(300-319,339,381-399)	-	0.8	-	0.4
Bones & Joints	(400-419)	-	0.2	2	0.2
Soft Tissue	(380,470-479,490-499)	-	0.8	1	0.6
Melanoma of Skin	(8720-8790)*	3	4.4	4	3.2
Breast	(500-509)	-	0.3	35	44.2
Cervix Uteri	(530-539)	-	-	2	3.4
Uterus (Corpus, NOS)	(540-559)	-	-	11	7.3
Ovary	(569)	-	-	8	4.2
Prostate	(619)	37	50.3	-	-
Testis	(620-629)	4	1.1	-	-
Bladder	(670-679)	9	8.2	5	2.4
Kidney & Renal Pelvis	(640-659)	5	4.3	3	2.2
Brain & CNS	(700-729)	3	1.9	1	1.7
Endocrine System	(379,739-759)	-	0.8	-	1.9
Lymphoma	(9590-9714)*	2	5.4	2	4.4
Multiple Myeloma	(9730,9732)*	1	1.6	1	1.4
Leukemia	(9800-9941)*	4	3.1	1	1.9
All Cancers	(000-809)	150	158.8	122	126.1

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

BUNCOMBE COUNTY 1993

Site	*ICD-O2*	*Male*		*Female*	
		Observed	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	18	13.5	8	7.1
Esophagus	(150-159)	7	7.8	2	2.8
Stomach	(160-169)	6	8.1	7	6.3
Colon & Rectum	(180-209,260)	47	53	56	56.3
Liver & Bile Ducts	(220-221)	3	2.4	-	1.4
Gallbladder & Biliary Tract	(239-249)	3	2	-	2
Pancreas	(250-259)	9	8.2	6	9.3
Digestive Organs	(170-179,210-218,268-269,480-489)	4	2.3	4	4
Larynx	(320-329)	7	8.8	6	2
Bronchus & Lung	(340-349)	72	90.6	60	48.8
Respiratory Organs	(300-319,339,381-399)	4	2.3	2	1.2
Bones & Joints	(400-419)	-	0.7	-	0.5
Soft Tissue	(380,470-479,490-499)	1	2.3	2	2.2
Melanoma of Skin	(8720-8790)*	8	12.7	14	10.7
Breast	(500-509)	1	0.9	180	145.4
Cervix Uteri	(530-539)	-	-	13	11.6
Uterus (Corpus, NOS)	(540-559)	-	-	21	23.3
Ovary	(569)	-	-	25	14.1
Prostate	(619)	133	141	-	-
Testis	(620-629)	11	3.6	-	-
Bladder	(670-679)	28	24.2	8	9
Kidney & Renal Pelvis	(640-659)	10	12.3	3	7.8
Brain & CNS	(700-729)	4	5.7	9	5.6
Endocrine System	(379,739-759)	2	2.3	9	6.1
Lymphoma	(9590-9714)*	21	16.2	16	15.3
Multiple Myeloma	(9730,9732)*	6	4.8	2	4.9
Leukemia	(9800-9941)*	10	9.4	7	6.7
All Cancers	(000-809)	438	453.6	483	427

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

BURKE COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	4	5.5	1	2.7
Esophagus	(150-159)	1	3.2	-	1.1
Stomach	(160-169)	4	3.1	-	2.2
Colon & Rectum	(180-209,260)	14	20.4	28	20.8
Liver & Bile Ducts	(220-221)	-	1	1	0.5
Gallbladder & Biliary Tract	(239-249)	1	0.8	-	0.7
Pancreas	(250-259)	4	3.2	2	3.4
Digestive Organs	(170-179,210-218,268-269,480-489)	2	0.9	2	1.6
Larynx	(320-329)	-	3.5	-	0.8
Bronchus & Lung	(340-349)	38	35.6	14	18.9
Respiratory Organs	(300-319,339,381-399)	1	0.9	-	0.5
Bones & Joints	(400-419)	-	0.3	1	0.2
Soft Tissue	(380,470-479,490-499)	2	1	1	0.9
Melanoma of Skin	(8720-8790)*	7	5.2	8	4.2
Breast	(500-509)	-	0.3	76	57.3
Cervix Uteri	(530-539)	-	-	3	4.6
Uterus (Corpus, NOS)	(540-559)	-	-	12	9.1
Ovary	(569)	-	-	5	5.5
Prostate	(619)	62	53.4	-	-
Testis	(620-629)	-	1.6	-	-
Bladder	(670-679)	10	9.2	5	3.3
Kidney & Renal Pelvis	(640-659)	8	4.9	5	2.9
Brain & CNS	(700-729)	3	2.4	2	2.2
Endocrine System	(379,739-759)	2	1	3	2.5
Lymphoma	(9590-9714)*	8	6.6	3	5.9
Multiple Myeloma	(9730,9732)*	-	1.9	5	1.9
Leukemia	(9800-9941)*	7	3.8	2	2.6
All Cancers	(000-809)	187	176.9	190	164.8

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

CABARRUS COUNTY 1993

Site	*ICD-O2*	*Male*		*Female*	
		Observed	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	3	6.9	4	3.5
Esophagus	(150-159)	6	4	1	1.4
Stomach	(160-169)	5	3.9	2	3
Colon & Rectum	(180-209,260)	19	25.4	21	27.4
Liver & Bile Ducts	(220-221)	-	1.2	-	0.7
Gallbladder & Biliary Tract	(239-249)	2	0.9	-	1
Pancreas	(250-259)	7	4	5	4.5
Digestive Organs	(170-179,210-218,268-269,480-489)	1	1.2	2	2.1
Larynx	(320-329)	3	4.4	1	1
Bronchus & Lung	(340-349)	45	44.4	12	24.4
Respiratory Organs	(300-319,339,381-399)	1	1.1	-	0.6
Bones & Joints	(400-419)	-	0.4	1	0.3
Soft Tissue	(380,470-479,490-499)	2	1.2	2	1.1
Melanoma of Skin	(8720-8790)*	7	6.6	8	5.6
Breast	(500-509)	-	0.4	62	74.6
Cervix Uteri	(530-539)	-	-	4	6.1
Uterus (Corpus, NOS)	(540-559)	-	-	11	11.8
Ovary	(569)	-	-	6	7.2
Prostate	(619)	42	66.3	-	-
Testis	(620-629)	2	2.2	-	-
Bladder	(670-679)	9	11.5	7	4.4
Kidney & Renal Pelvis	(640-659)	5	6.1	1	3.9
Brain & CNS	(700-729)	5	3	6	2.9
Endocrine System	(379,739-759)	1	1.3	3	3.3
Lymphoma	(9590-9714)*	7	8.4	11	7.7
Multiple Myeloma	(9730,9732)*	1	2.3	3	2.4
Leukemia	(9800-9941)*	3	4.7	4	3.5
All Cancers	(000-809)	184	220.8	186	215.6

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

CALDWELL COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	4	5	1	2.4
Esophagus	(150-159)	3	2.9	2	0.9
Stomach	(160-169)	5	2.8	2	2
Colon & Rectum	(180-209,260)	18	18.2	22	18.1
Liver & Bile Ducts	(220-221)	2	0.9	1	0.5
Gallbladder & Biliary Tract	(239-249)	1	0.7	-	0.6
Pancreas	(250-259)	2	2.8	2	3
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.8	-	1.4
Larynx	(320-329)	3	3.2	-	0.7
Bronchus & Lung	(340-349)	24	31.9	10	16.5
Respiratory Organs	(300-319,339,381-399)	2	0.8	-	0.4
Bones & Joints	(400-419)	2	0.3	-	0.2
Soft Tissue	(380,470-479,490-499)	1	0.9	-	0.8
Melanoma of Skin	(8720-8790)*	6	4.8	8	3.8
Breast	(500-509)	-	0.3	43	50.8
Cervix Uteri	(530-539)	-	-	6	4.2
Uterus (Corpus, NOS)	(540-559)	-	-	11	8
Ovary	(569)	-	-	2	4.9
Prostate	(619)	47	47.3	-	-
Testis	(620-629)	-	1.5	-	-
Bladder	(670-679)	7	8.2	4	2.9
Kidney & Renal Pelvis	(640-659)	3	4.4	3	2.6
Brain & CNS	(700-729)	3	2.2	5	2
Endocrine System	(379,739-759)	1	0.9	-	2.3
Lymphoma	(9590-9714)*	5	6	12	5.2
Multiple Myeloma	(9730,9732)*	2	1.7	1	1.6
Leukemia	(9800-9941)*	2	3.4	6	2.3
All Cancers	(000-809)	149	158.4	149	145.6

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

CAMDEN COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	-	0.5	-	0.2
Esophagus	(150-159)	-	0.3	-	0.1
Stomach	(160-169)	-	0.3	-	0.2
Colon & Rectum	(180-209,260)	-	1.8	-	1.5
Liver & Bile Ducts	(220-221)	-	0.1	-	-
Gallbladder & Biliary Tract	(239-249)	-	0.1	-	0.1
Pancreas	(250-259)	-	0.3	1	0.3
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.1	-	0.1
Larynx	(320-329)	-	0.3	-	0.1
Bronchus & Lung	(340-349)	1	3.1	1	1.4
Respiratory Organs	(300-319,339,381-399)	-	0.1	-	-
Bones & Joints	(400-419)	-	-	-	-
Soft Tissue	(380,470-479,490-499)	-	0.1	-	0.1
Melanoma of Skin	(8720-8790)*	-	0.4	-	0.3
Breast	(500-509)	-	-	5	4.3
Cervix Uteri	(530-539)	-	-	-	0.3
Uterus (Corpus, NOS)	(540-559)	-	-	-	0.7
Ovary	(569)	-	-	-	0.4
Prostate	(619)	7	4.7	-	-
Testis	(620-629)	-	0.1	-	-
Bladder	(670-679)	-	0.8	-	0.2
Kidney & Renal Pelvis	(640-659)	1	0.4	-	0.2
Brain & CNS	(700-729)	-	0.2	-	0.2
Endocrine System	(379,739-759)	-	0.1	-	0.2
Lymphoma	(9590-9714)*	-	0.6	1	0.4
Multiple Myeloma	(9730,9732)*	-	0.2	-	0.1
Leukemia	(9800-9941)*	-	0.3	-	0.2
All Cancers	(000-809)	9	15.5	8	12.2

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

CARTERET COUNTY 1993

Site	*ICD-O2*	*Male*		*Female*	
		Observed	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	7	4.3	5	2
Esophagus	(150-159)	2	2.6	1	0.8
Stomach	(160-169)	3	2.5	3	1.6
Colon & Rectum	(180-209,260)	26	16.3	8	14.9
Liver & Bile Ducts	(220-221)	2	0.8	3	0.4
Gallbladder & Biliary Tract	(239-249)	-	0.6	-	0.5
Pancreas	(250-259)	-	2.6	2	2.5
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.7	-	1.1
Larynx	(320-329)	1	2.8	1	0.6
Bronchus & Lung	(340-349)	27	29.3	12	14.1
Respiratory Organs	(300-319,339,381-399)	1	0.7	1	0.4
Bones & Joints	(400-419)	-	0.2	-	0.2
Soft Tissue	(380,470-479,490-499)	1	0.7	1	0.6
Melanoma of Skin	(8720-8790)*	3	4.1	-	3.1
Breast	(500-509)	1	0.3	35	41.7
Cervix Uteri	(530-539)	-	-	5	3.3
Uterus (CORPUS, NOS)	(540-559)	-	-	9	6.7
Ovary	(569)	-	-	2	4
Prostate	(619)	24	44.8	-	-
Testis	(620-629)	-	1.1	-	-
Bladder	(670-679)	6	7.5	3	2.4
Kidney & Renal Pelvis	(640-659)	4	3.9	3	2.1
Brain & CNS	(700-729)	3	1.8	1	1.6
Endocrine System	(379,739-759)	-	0.7	-	1.8
Lymphoma	(9590-9714)*	2	5.1	7	4.2
Multiple Myeloma	(9730,9732)*	3	1.5	3	1.4
Leukemia	(9800-9941)*	-	2.9	2	1.9
All Cancers	(000-809)	120	143.5	112	120

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

CASWELL COUNTY 1993

Site	*ICD-O2*	*Male*		*Female*	
		Observed	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	4	1.6	-	0.8
Esophagus	(150-159)	-	0.9	-	0.3
Stomach	(160-169)	-	0.9	1	0.6
Colon & Rectum	(180-209,260)	1	5.9	4	5.9
Liver & Bile Ducts	(220-221)	-	0.3	-	0.2
Gallbladder & Biliary Tract	(239-249)	-	0.2	-	0.2
Pancreas	(250-259)	-	0.9	-	1
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.3	-	0.4
Larynx	(320-329)	3	1	-	0.2
Bronchus & Lung	(340-349)	9	10.2	2	5.3
Respiratory Organs	(300-319,339,381-399)	-	0.3	-	0.1
Bones & Joints	(400-419)	1	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	1	0.3	-	0.2
Melanoma of Skin	(8720-8790)*	3	1.5	2	1.2
Breast	(500-509)	-	0.1	13	15.9
Cervix Uteri	(530-539)	-	-	4	1.3
Uterus (CORPUS, NOS)	(540-559)	-	-	2	2.5
Ovary	(569)	-	-	1	1.5
Prostate	(619)	20	15.5	-	-
Testis	(620-629)	-	0.4	-	-
Bladder	(670-679)	1	2.7	2	0.9
Kidney & Renal Pelvis	(640-659)	-	1.4	-	0.8
Brain & CNS	(700-729)	-	0.7	-	0.6
Endocrine System	(379,739-759)	-	0.3	-	0.7
Lymphoma	(9590-9714)*	-	1.9	1	1.6
Multiple Myeloma	(9730,9732)*	2	0.5	-	0.5
Leukemia	(9800-9941)*	-	1.1	2	0.7
All Cancers	(000-809)	46	51.1	34	45.9

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

CATAWBA COUNTY 1993

Site	*ICD-O2*	*Male*		*Female*	
		Observed	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	7	8.1	6	3.9
Esophagus	(150-159)	3	4.6	1	1.5
Stomach	(160-169)	6	4.4	2	3.2
Colon & Rectum	(180-209,260)	32	29.2	33	30.1
Liver & Bile Ducts	(220-221)	1	1.4	-	0.8
Gallbladder & Biliary Tract	(239-249)	2	1.1	2	1.1
Pancreas	(250-259)	5	4.6	6	4.9
Digestive Organs	(170-179,210-218,268-269,480-489)	1	1.4	3	2.3
Larynx	(320-329)	7	5.1	-	1.2
Bronchus & Lung	(340-349)	62	51.5	29	27.6
Respiratory Organs	(300-319,339,381-399)	-	1.3	-	0.7
Bones & Joints	(400-419)	1	0.5	-	0.3
Soft Tissue	(380,470-479,490-499)	2	1.4	1	1.3
Melanoma of Skin	(8720-8790)*	20	7.7	11	6.4
Breast	(500-509)	-	0.5	89	85
Cervix Uteri	(530-539)	-	-	12	7
Uterus (CORPUS, NOS)	(540-559)	-	-	20	13.4
Ovary	(569)	-	-	7	8.2
Prostate	(619)	92	76.4	-	-
Testis	(620-629)	4	2.6	-	-
Bladder	(670-679)	21	13.2	4	4.8
Kidney & Renal Pelvis	(640-659)	7	7.1	2	4.3
Brain & CNS	(700-729)	6	3.5	3	3.3
Endocrine System	(379,739-759)	1	1.5	3	3.8
Lymphoma	(9590-9714)*	10	9.8	7	8.7
Multiple Myeloma	(9730,9732)*	3	2.7	-	2.7
Leukemia	(9800-9941)*	4	5.5	4	3.9
All Cancers	(000-809)	309	255.5	255	242.9

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

CHATHAM COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	3	2.9	2	1.5
Esophagus	(150-159)	2	1.7	-	0.6
Stomach	(160-169)	3	1.7	1	1.3
Colon & Rectum	(180-209,260)	14	11.2	8	11.6
Liver & Bile Ducts	(220-221)	1	0.5	-	0.3
Gallbladder & Biliary Tract	(239-249)	2	0.4	-	0.4
Pancreas	(250-259)	3	1.7	3	1.9
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.5	2	0.9
Larynx	(320-329)	3	1.9	-	0.4
Bronchus & Lung	(340-349)	16	19.5	4	10.3
Respiratory Organs	(300-319,339,381-399)	-	0.5	-	0.3
Bones & Joints	(400-419)	-	0.2	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.5	-	0.5
Melanoma of Skin	(8720-8790)*	6	2.8	2	2.3
Breast	(500-509)	-	0.2	35	31.1
Cervix Uteri	(530-539)	-	-	4	2.5
Uterus (CORPUS, NOS)	(540-559)	-	-	2	5
Ovary	(569)	-	-	2	3
Prostate	(619)	24	29.8	-	-
Testis	(620-629)	1	0.8	-	-
Bladder	(670-679)	5	5.1	-	1.8
Kidney & Renal Pelvis	(640-659)	1	2.7	1	1.6
Brain & CNS	(700-729)	1	1.3	-	1.2
Endocrine System	(379,739-759)	-	0.5	3	1.4
Lymphoma	(9590-9714)*	3	3.6	1	3.2
Multiple Myeloma	(9730,9732)*	-	1	1	1
Leukemia	(9800-9941)*	2	2	2	1.4
All Cancers	(000-809)	93	97	77	90.3

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

CHEROKEE COUNTY 1993

Site	*ICD-O2*	*Male*		*Female*	
		Observed	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	-	1.8	-	0.9
Esophagus	(150-159)	-	1.1	-	0.4
Stomach	(160-169)	1	1.2	1	0.8
Colon & Rectum	(180-209,260)	4	7.6	8	7
Liver & Bile Ducts	(220-221)	-	0.3	-	0.2
Gallbladder & Biliary Tract	(239-249)	-	0.3	1	0.2
Pancreas	(250-259)	-	1.2	-	1.2
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.3	-	0.5
Larynx	(320-329)	-	1.2	-	0.3
Bronchus & Lung	(340-349)	13	13	4	6.3
Respiratory Organs	(300-319,339,381-399)	-	0.3	-	0.2
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	1	0.3	-	0.3
Melanoma of Skin	(8720-8790)*	1	1.7	3	1.3
Breast	(500-509)	-	0.1	9	18
Cervix Uteri	(530-539)	-	-	2	1.4
Uterus (CORPUS, NOS)	(540-559)	-	-	-	3
Ovary	(569)	-	-	-	1.7
Prostate	(619)	16	20.7	-	-
Testis	(620-629)	-	0.4	-	-
Bladder	(670-679)	8	3.5	-	1.1
Kidney & Renal Pelvis	(640-659)	1	1.7	-	1
Brain & CNS	(700-729)	-	0.7	-	0.7
Endocrine System	(379,739-759)	-	0.3	1	0.7
Lymphoma	(9590-9714)*	1	2.2	3	1.9
Multiple Myeloma	(9730,9732)*	-	0.7	-	0.6
Leukemia	(9800-9941)*	2	1.3	-	0.8
All Cancers	(000-809)	49	64.6	32	53.4

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

CHOWAN COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	1	1.1	-	0.6
Esophagus	(150-159)	1	0.6	-	0.2
Stomach	(160-169)	2	0.7	-	0.5
Colon & Rectum	(180-209,260)	9	4.3	5	4.5
Liver & Bile Ducts	(220-221)	-	0.2	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.2	-	0.2
Pancreas	(250-259)	-	0.7	2	0.8
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.2	-	0.3
Larynx	(320-329)	2	0.7	-	0.2
Bronchus & Lung	(340-349)	8	7.5	3	4
Respiratory Organs	(300-319,339,381-399)	-	0.2	-	0.1
Bones & Joints	(400-419)	-	0.1	-	-
Soft Tissue	(380,470-479,490-499)	-	0.2	-	0.2
Melanoma of Skin	(8720-8790)*	-	1	-	0.8
Breast	(500-509)	-	0.1	12	11.4
Cervix Uteri	(530-539)	-	-	-	0.9
Uterus (CORPUS, NOS)	(540-559)	-	-	4	1.9
Ovary	(569)	-	-	1	1.1
Prostate	(619)	13	11.8	-	-
Testis	(620-629)	-	0.2	-	-
Bladder	(670-679)	3	2	-	0.7
Kidney & Renal Pelvis	(640-659)	1	1	-	0.6
Brain & CNS	(700-729)	1	0.4	-	0.4
Endocrine System	(379,739-759)	1	0.2	-	0.5
Lymphoma	(9590-9714)*	1	1.3	-	1.2
Multiple Myeloma	(9730,9732)*	-	0.4	1	0.4
Leukemia	(9800-9941)*	-	0.7	1	0.5
All Cancers	(000-809)	45	37.3	33	33.9

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

CLAY COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	-	0.7	-	0.3
Esophagus	(150-159)	-	0.4	-	0.1
Stomach	(160-169)	-	0.5	1	0.3
Colon & Rectum	(180-209,260)	3	2.9	1	2.6
Liver & Bile Ducts	(220-221)	-	0.1	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.1	-	0.1
Pancreas	(250-259)	-	0.5	-	0.4
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.1	-	0.2
Larynx	(320-329)	-	0.5	-	0.1
Bronchus & Lung	(340-349)	1	5	-	2.3
Respiratory Organs	(300-319,339,381-399)	-	0.1	-	0.1
Bones & Joints	(400-419)	-	-	-	-
Soft Tissue	(380,470-479,490-499)	-	0.1	-	0.1
Melanoma of Skin	(8720-8790)*	-	0.6	-	0.5
Breast	(500-509)	-	-	2	6.6
Cervix Uteri	(530-539)	-	-	2	0.5
Uterus (CORPUS, NOS)	(540-559)	-	-	-	1.1
Ovary	(569)	-	-	-	0.6
Prostate	(619)	3	8	-	-
Testis	(620-629)	-	0.1	-	-
Bladder	(670-679)	-	1.4	-	0.4
Kidney & Renal Pelvis	(640-659)	-	0.7	-	0.4
Brain & CNS	(700-729)	1	0.3	-	0.2
Endocrine System	(379,739-759)	-	0.1	-	0.3
Lymphoma	(9590-9714)*	-	0.8	-	0.7
Multiple Myeloma	(9730,9732)*	-	0.3	-	0.2
Leukemia	(9800-9941)*	-	0.5	-	0.3
All Cancers	(000-809)	8	24.8	6	19.5

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

CLEVELAND COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	6	5.9	5	3.1
Esophagus	(150-159)	1	3.4	1	1.2
Stomach	(160-169)	5	3.4	1	2.6
Colon & Rectum	(180-209,260)	28	22	18	24
Liver & Bile Ducts	(220-221)	-	1	-	0.6
Gallbladder & Biliary Tract	(239-249)	1	0.8	1	0.8
Pancreas	(250-259)	3	3.4	3	4
Digestive Organs	(170-179,210-218,268-269,480-489)	1	1	3	1.8
Larynx	(320-329)	4	3.8	-	0.9
Bronchus & Lung	(340-349)	39	38.7	17	21.5
Respiratory Organs	(300-319,339,381-399)	2	1	-	0.6
Bones & Joints	(400-419)	-	0.3	-	0.2
Soft Tissue	(380,470-479,490-499)	-	1	1	1
Melanoma of Skin	(8720-8790)*	2	5.6	1	4.8
Breast	(500-509)	1	0.4	52	64.7
Cervix Uteri	(530-539)	-	-	4	5.2
Uterus (CORPUS, NOS)	(540-559)	-	-	11	10.3
Ovary	(569)	-	-	7	6.2
Prostate	(619)	56	58.4	-	-
Testis	(620-629)	2	1.7	-	-
Bladder	(670-679)	5	10	3	3.8
Kidney & Renal Pelvis	(640-659)	3	5.3	3	3.4
Brain & CNS	(700-729)	2	2.6	8	2.5
Endocrine System	(379,739-759)	2	1.1	3	2.8
Lymphoma	(9590-9714)*	4	7.1	4	6.7
Multiple Myeloma	(9730,9732)*	1	2	1	2.1
Leukemia	(9800-9941)*	5	4.1	1	3
All Cancers	(000-809)	180	191.7	155	187.6

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

COLUMBUS COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	3	3.4	2	1.8
Esophagus	(150-159)	1	2	-	0.7
Stomach	(160-169)	1	1.9	1	1.5
Colon & Rectum	(180-209,260)	18	12.5	15	13.9
Liver & Bile Ducts	(220-221)	1	0.6	-	0.4
Gallbladder & Biliary Tract	(239-249)	1	0.5	-	0.5
Pancreas	(250-259)	-	2	4	2.3
Digestive Organs	(170-179,210-218,268-269,480-489)	1	0.6	1	1
Larynx	(320-329)	4	2.2	-	0.5
Bronchus & Lung	(340-349)	29	22.1	15	12.7
Respiratory Organs	(300-319,339,381-399)	1	0.5	-	0.3
Bones & Joints	(400-419)	-	0.2	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.6	1	0.6
Melanoma of Skin	(8720-8790)*	1	3.2	2	2.8
Breast	(500-509)	-	0.2	30	37.8
Cervix Uteri	(530-539)	-	-	5	3
Uterus (CORPUS, NOS)	(540-559)	-	-	9	6.1
Ovary	(569)	-	-	4	3.7
Prostate	(619)	23	33.3	-	-
Testis	(620-629)	1	0.9	-	-
Bladder	(670-679)	7	5.7	3	2.2
Kidney & Renal Pelvis	(640-659)	5	3	4	2
Brain & CNS	(700-729)	-	1.4	1	1.5
Endocrine System	(379,739-759)	1	0.6	2	1.6
Lymphoma	(9590-9714)*	2	4	5	3.9
Multiple Myeloma	(9730,9732)*	1	1.1	-	1.2
Leukemia	(9800-9941)*	2	2.3	2	1.7
All Cancers	(000-809)	106	109.2	113	109.4

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

CRAVEN COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	6	4.9	-	2.4
Esophagus	(150-159)	7	2.9	-	1
Stomach	(160-169)	5	2.8	-	2
Colon & Rectum	(180-209,260)	31	18.4	24	18.4
Liver & Bile Ducts	(220-221)	2	0.9	-	0.5
Gallbladder & Biliary Tract	(239-249)	-	0.7	-	0.7
Pancreas	(250-259)	3	2.9	2	3
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.8	3	1.4
Larynx	(320-329)	3	3.2	1	0.7
Bronchus & Lung	(340-349)	36	32.8	26	17.1
Respiratory Organs	(300-319,339,381-399)	4	0.8	1	0.5
Bones & Joints	(400-419)	1	0.3	-	0.2
Soft Tissue	(380,470-479,490-499)	-	0.9	-	0.8
Melanoma of Skin	(8720-8790)*	7	4.8	8	4
Breast	(500-509)	-	0.3	53	51.5
Cervix Uteri	(530-539)	-	-	1	4.3
Uterus (CORPUS, NOS)	(540-559)	-	-	7	8.2
Ovary	(569)	-	-	3	5
Prostate	(619)	72	50.2	-	-
Testis	(620-629)	2	1.8	-	-
Bladder	(670-679)	9	8.4	6	2.9
Kidney & Renal Pelvis	(640-659)	7	4.5	5	2.7
Brain & CNS	(700-729)	2	2.2	-	2.1
Endocrine System	(379,739-759)	2	0.9	1	2.4
Lymphoma	(9590-9714)*	8	6.2	9	5.4
Multiple Myeloma	(9730,9732)*	3	1.7	1	1.7
Leukemia	(9800-9941)*	3	3.6	6	2.4
All Cancers	(000-809)	221	163.5	166	149

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

CUMBERLAND COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	14	12.6	5	5.9
Esophagus	(150-159)	1	7	3	2.2
Stomach	(160-169)	3	6.2	2	4.4
Colon & Rectum	(180-209,260)	33	41.3	34	42.2
Liver & Bile Ducts	(220-221)	1	2.1	-	1.2
Gallbladder & Biliary Tract	(239-249)	2	1.5	1	1.5
Pancreas	(250-259)	6	6.4	6	6.8
Digestive Organs	(170-179,210-218,268-269,480-489)	1	2.3	6	3.7
Larynx	(320-329)	4	7.7	1	1.9
Bronchus & Lung	(340-349)	86	73.9	44	41.2
Respiratory Organs	(300-319,339,381-399)	3	2	-	1.2
Bones & Joints	(400-419)	-	1.2	1	0.7
Soft Tissue	(380,470-479,490-499)	-	2.6	3	2.3
Melanoma of Skin	(8720-8790)*	4	12.8	9	11.4
Breast	(500-509)	2	0.7	113	135.6
Cervix Uteri	(530-539)	-	-	10	12.8
Uterus (CORPUS, NOS)	(540-559)	-	-	14	20.7
Ovary	(569)	-	-	15	13
Prostate	(619)	88	103.8	-	-
Testis	(620-629)	-	7	-	-
Bladder	(670-679)	4	18.3	4	6.6
Kidney & Renal Pelvis	(640-659)	5	10.7	7	6.6
Brain & CNS	(700-729)	4	6.6	8	6
Endocrine System	(379,739-759)	4	2.9	6	7.4
Lymphoma	(9590-9714)*	12	17.2	6	13.9
Multiple Myeloma	(9730,9732)*	4	3.8	3	3.8
Leukemia	(9800-9941)*	8	9.7	7	6.7
All Cancers	(000-809)	302	376.3	324	378.6

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

CURRITUCK COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	-	1.1	-	0.5
Esophagus	(150-159)	-	0.6	-	0.2
Stomach	(160-169)	-	0.6	-	0.4
Colon & Rectum	(180-209,260)	2	3.9	3	3.5
Liver & Bile Ducts	(220-221)	-	0.2	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.1	-	0.1
Pancreas	(250-259)	-	0.6	-	0.6
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.2	-	0.3
Larynx	(320-329)	1	0.7	-	0.1
Bronchus & Lung	(340-349)	1	6.9	4	3.2
Respiratory Organs	(300-319,339,381-399)	-	0.2	-	0.1
Bones & Joints	(400-419)	-	0.1	-	-
Soft Tissue	(380,470-479,490-499)	-	0.2	-	0.2
Melanoma of Skin	(8720-8790)*	-	1	-	0.7
Breast	(500-509)	-	0.1	4	9.9
Cervix Uteri	(530-539)	-	-	-	0.8
Uterus (CORPUS, NOS)	(540-559)	-	-	-	1.6
Ovary	(569)	-	-	-	0.9
Prostate	(619)	6	10.4	-	-
Testis	(620-629)	-	0.3	-	-
Bladder	(670-679)	1	1.8	1	0.6
Kidney & Renal Pelvis	(640-659)	-	0.9	-	0.5
Brain & CNS	(700-729)	-	0.5	-	0.4
Endocrine System	(379,739-759)	-	0.2	-	0.4
Lymphoma	(9590-9714)*	-	1.3	-	1
Multiple Myeloma	(9730,9732)*	-	0.4	-	0.3
Leukemia	(9800-9941)*	-	0.7	-	0.4
All Cancers	(000-809)	11	34.4	14	28.2

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

DARE COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	-	1.7	-	0.7
Esophagus	(150-159)	-	1	-	0.3
Stomach	(160-169)	-	0.9	-	0.6
Colon & Rectum	(180-209,260)	3	6.3	5	5.4
Liver & Bile Ducts	(220-221)	-	0.3	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.2	-	0.2
Pancreas	(250-259)	1	1	-	0.9
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.3	-	0.4
Larynx	(320-329)	2	1.1	-	0.2
Bronchus & Lung	(340-349)	6	11.2	2	5.2
Respiratory Organs	(300-319,339,381-399)	1	0.3	-	0.1
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.3	-	0.2
Melanoma of Skin	(8720-8790)*	-	1.7	-	1.2
Breast	(500-509)	-	0.1	6	16
Cervix Uteri	(530-539)	-	-	-	1.4
Uterus (CORPUS, NOS)	(540-559)	-	-	1	2.5
Ovary	(569)	-	-	-	1.5
Prostate	(619)	12	16.9	-	-
Testis	(620-629)	1	0.5	-	-
Bladder	(670-679)	4	2.9	-	0.8
Kidney & Renal Pelvis	(640-659)	1	1.5	1	0.8
Brain & CNS	(700-729)	1	0.7	-	0.6
Endocrine System	(379,739-759)	-	0.3	-	0.8
Lymphoma	(9590-9714)*	-	2.1	-	1.6
Multiple Myeloma	(9730,9732)*	-	0.6	-	0.5
Leukemia	(9800-9941)*	-	1.1	1	0.7
All Cancers	(000-809)	32	55.3	17	45.1

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

DAVIDSON COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	5	9	5	4.2
Esophagus	(150-159)	5	5.2	-	1.7
Stomach	(160-169)	2	5	3	3.5
Colon & Rectum	(180-209,260)	25	32.8	36	32.1
Liver & Bile Ducts	(220-221)	2	1.6	-	0.8
Gallbladder & Biliary Tract	(239-249)	1	1.2	-	1.1
Pancreas	(250-259)	6	5.1	4	5.3
Digestive Organs	(170-179,210-218,268-269,480-489)	1	1.5	3	2.5
Larynx	(320-329)	5	5.7	3	1.3
Bronchus & Lung	(340-349)	61	57.5	26	29.6
Respiratory Organs	(300-319,339,381-399)	1	1.4	2	0.8
Bones & Joints	(400-419)	2	0.5	1	0.4
Soft Tissue	(380,470-479,490-499)	3	1.6	2	1.4
Melanoma of Skin	(8720-8790)*	6	8.6	10	6.9
Breast	(500-509)	1	0.6	81	91.3
Cervix Uteri	(530-539)	-	-	7	7.5
Uterus (Corpus,NOS)	(540-559)	-	-	13	14.3
Ovary	(569)	-	-	13	8.7
Prostate	(619)	74	85.7	-	-
Testis	(620-629)	6	2.8	-	-
Bladder	(670-679)	16	14.8	2	5.1
Kidney & Renal Pelvis	(640-659)	8	7.9	6	4.6
Brain & CNS	(700-729)	3	3.9	1	3.6
Endocrine System	(379,739-759)	1	1.7	5	4.1
Lymphoma	(9590-9714)*	11	10.8	10	9.3
Multiple Myeloma	(9730,9732)*	3	3	2	2.9
Leukemia	(9800-9941)*	11	6.1	8	4.1
All Cancers	(000-809)	270	285.7	256	260.5

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

DAVIE COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	2	2.2	3	1
Esophagus	(150-159)	-	1.2	-	0.4
Stomach	(160-169)	3	1.2	1	0.9
Colon & Rectum	(180-209,260)	6	8	11	7.9
Liver & Bile Ducts	(220-221)	1	0.4	-	0.2
Gallbladder & Biliary Tract	(239-249)	1	0.3	1	0.3
Pancreas	(250-259)	1	1.2	3	1.3
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.4	-	0.6
Larynx	(320-329)	1	1.4	-	0.3
Bronchus & Lung	(340-349)	10	14	4	7.1
Respiratory Organs	(300-319,339,381-399)	-	0.3	1	0.2
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	1	0.4	-	0.3
Melanoma of Skin	(8720-8790)*	1	2	6	1.6
Breast	(500-509)	-	0.1	20	21.5
Cervix Uteri	(530-539)	-	-	3	1.7
Uterus (Corpus,NOS)	(540-559)	-	-	2	3.4
Ovary	(569)	-	-	2	2.1
Prostate	(619)	21	21.2	-	-
Testis	(620-629)	-	0.6	-	-
Bladder	(670-679)	5	3.6	2	1.2
Kidney & Renal Pelvis	(640-659)	-	1.9	-	1.1
Brain & CNS	(700-729)	1	0.9	2	0.8
Endocrine System	(379,739-759)	-	0.4	3	0.9
Lymphoma	(9590-9714)*	1	2.5	2	2.2
Multiple Myeloma	(9730,9732)*	-	0.7	1	0.7
Leukemia	(9800-9941)*	1	1.5	-	1
All Cancers	(000-809)	56	69.3	74	62

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

DUPLIN COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	2	2.8	5	1.5
Esophagus	(150-159)	2	1.6	-	0.6
Stomach	(160-169)	-	1.6	2	1.3
Colon & Rectum	(180-209,260)	9	10.5	12	11.5
Liver & Bile Ducts	(220-221)	1	0.5	-	0.3
Gallbladder & Biliary Tract	(239-249)	-	0.4	-	0.4
Pancreas	(250-259)	3	1.6	1	1.9
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.5	-	0.8
Larynx	(320-329)	1	1.8	2	0.4
Bronchus & Lung	(340-349)	21	18.4	6	10.2
Respiratory Organs	(300-319,339,381-399)	-	0.5	-	0.3
Bones & Joints	(400-419)	-	0.2	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.5	1	0.5
Melanoma of Skin	(8720-8790)*	2	2.6	2	2.2
Breast	(500-509)	1	0.2	24	30.5
Cervix Uteri	(530-539)	-	-	2	2.4
Uterus (Corpus,NOS)	(540-559)	-	-	3	4.9
Ovary	(569)	-	-	2	3
Prostate	(619)	13	28.1	-	-
Testis	(620-629)	-	0.8	-	-
Bladder	(670-679)	4	4.8	1	1.8
Kidney & Renal Pelvis	(640-659)	2	2.5	1	1.6
Brain & CNS	(700-729)	-	1.2	1	1.2
Endocrine System	(379,739-759)	-	0.5	1	1.3
Lymphoma	(9590-9714)*	2	3.4	3	3.2
Multiple Myeloma	(9730,9732)*	1	1	1	1
Leukemia	(9800-9941)*	2	2	1	1.4
All Cancers	(000-809)	69	91.7	75	88.9

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

DURHAM COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	10	9.8	4	5.3
Esophagus	(150-159)	3	5.5	3	2.1
Stomach	(160-169)	4	5.4	6	4.6
Colon & Rectum	(180-209,260)	32	35.4	45	41.2
Liver & Bile Ducts	(220-221)	2	1.7	3	1.1
Gallbladder & Biliary Tract	(239-249)	2	1.3	-	1.5
Pancreas	(250-259)	10	5.4	5	6.7
Digestive Organs	(170-179,210-218,268-269,480-489)	-	1.8	2	3.2
Larynx	(320-329)	4	6.2	3	1.5
Bronchus & Lung	(340-349)	69	60.6	46	35.8
Respiratory Organs	(300-319,339,381-399)	-	1.6	1	1
Bones & Joints	(400-419)	1	0.7	-	0.5
Soft Tissue	(380,470-479,490-499)	3	1.9	2	1.9
Melanoma of Skin	(8720-8790)*	15	9.8	14	9.5
Breast	(500-509)	1	0.6	144	115.1
Cervix Uteri	(530-539)	-	-	15	10.5
Uterus (Corpus,NOS)	(540-559)	-	-	11	17.6
Ovary	(569)	-	-	7	11.2
Prostate	(619)	104	90	-	-
Testis	(620-629)	7	4.2	-	-
Bladder	(670-679)	15	15.9	10	6.5
Kidney & Renal Pelvis	(640-659)	7	8.7	7	5.9
Brain & CNS	(700-729)	5	4.7	6	4.8
Endocrine System	(379,739-759)	2	2	3	5.8
Lymphoma	(9590-9714)*	15	12.8	10	12.2
Multiple Myeloma	(9730,9732)*	5	3.2	3	3.5
Leukemia	(9800-9941)*	9	7.2	1	5.5
All Cancers	(000-809)	333	309.5	374	332

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

EDGECOMBE COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	5	3.2	6	1.9
Esophagus	(150-159)	4	1.9	2	0.7
Stomach	(160-169)	3	1.8	-	1.6
Colon & Rectum	(180-209,260)	13	11.9	12	14.4
Liver & Bile Ducts	(220-221)	-	0.6	1	0.4
Gallbladder & Biliary Tract	(239-249)	-	0.4	1	0.5
Pancreas	(250-259)	-	1.9	2	2.4
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.6	-	1.1
Larynx	(320-329)	6	2.1	1	0.6
Bronchus & Lung	(340-349)	25	21	15	12.9
Respiratory Organs	(300-319,339,381-399)	-	0.5	-	0.3
Bones & Joints	(400-419)	-	0.2	-	0.2
Soft Tissue	(380,470-479,490-499)	-	0.6	-	0.6
Melanoma of Skin	(8720-8790)*	2	3.1	3	3
Breast	(500-509)	1	0.2	40	39.6
Cervix Uteri	(530-539)	-	-	6	3.3
Uterus (Corpus,NOS)	(540-559)	-	-	6	6.3
Ovary	(569)	-	-	3	3.8
Prostate	(619)	42	31.7	-	-
Testis	(620-629)	1	1	-	-
Bladder	(670-679)	8	5.4	2	2.3
Kidney & Renal Pelvis	(640-659)	2	2.9	-	2.1
Brain & CNS	(700-729)	-	1.5	1	1.6
Endocrine System	(379,739-759)	-	0.6	-	1.8
Lymphoma	(9590-9714)*	3	4	2	4.1
Multiple Myeloma	(9730,9732)*	-	1.1	1	1.3
Leukemia	(9800-9941)*	4	2.3	2	1.9
All Cancers	(000-809)	125	104.8	114	114.7

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

FORSYTH COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	15	17	8	9.1
Esophagus	(150-159)	9	9.8	6	3.6
Stomach	(160-169)	12	9.4	9	7.8
Colon & Rectum	(180-209,260)	71	61.9	81	70.3
Liver & Bile Ducts	(220-221)	1	2.9	1	1.8
Gallbladder & Biliary Tract	(239-249)	2	2.3	4	2.5
Pancreas	(250-259)	9	9.6	21	11.5
Digestive Organs	(170-179,210-218,268-269,480-489)	4	2.9	3	5.3
Larynx	(320-329)	12	10.8	3	2.6
Bronchus & Lung	(340-349)	125	108.3	81	62.2
Respiratory Organs	(300-319,339,381-399)	2	2.7	2	1.6
Bones & Joints	(400-419)	-	1	-	0.8
Soft Tissue	(380,470-479,490-499)	7	3.1	7	3
Melanoma of Skin	(8720-8790)*	31	16.3	24	14.7
Breast	(500-509)	1	1.1	201	192
Cervix Uteri	(530-539)	-	-	11	16.2
Uterus (Corpus,NOS)	(540-559)	-	-	41	30.1
Ovary	(569)	-	-	29	18.5
Prostate	(619)	224	162.1	-	-
Testis	(620-629)	8	5.6	-	-
Bladder	(670-679)	37	28	19	11.2
Kidney & Renal Pelvis	(640-659)	19	15	10	9.9
Brain & CNS	(700-729)	9	7.5	11	7.6
Endocrine System	(379,739-759)	3	3.2	15	8.7
Lymphoma	(9590-9714)*	33	20.8	17	20
Multiple Myeloma	(9730,9732)*	6	5.7	7	6.2
Leukemia	(9800-9941)*	24	11.8	5	9
All Cancers	(000-809)	694	541.2	654	555.3

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

FRANKLIN COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	2	2.5	-	1.3
Esophagus	(150-159)	-	1.4	-	0.5
Stomach	(160-169)	3	1.4	2	1.1
Colon & Rectum	(180-209,260)	3	9.1	9	10.3
Liver & Bile Ducts	(220-221)	-	0.4	1	0.3
Gallbladder & Biliary Tract	(239-249)	-	0.3	-	0.4
Pancreas	(250-259)	-	1.4	-	1.7
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.4	1	0.8
Larynx	(320-329)	2	1.6	-	0.4
Bronchus & Lung	(340-349)	21	15.9	12	9
Respiratory Organs	(300-319,339,381-399)	1	0.4	-	0.2
Bones & Joints	(400-419)	-	0.2	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.5	1	0.4
Melanoma of Skin	(8720-8790)*	2	2.4	2	2.1
Breast	(500-509)	-	0.2	17	27.4
Cervix Uteri	(530-539)	-	-	4	2.3
Uterus (Corpus,NOS)	(540-559)	-	-	2	4.3
Ovary	(569)	-	-	3	2.7
Prostate	(619)	20	23.8	-	-
Testis	(620-629)	-	0.8	-	-
Bladder	(670-679)	3	4.1	1	1.6
Kidney & Renal Pelvis	(640-659)	2	2.2	-	1.4
Brain & CNS	(700-729)	1	1.1	1	1.1
Endocrine System	(379,739-759)	3	0.5	-	1.2
Lymphoma	(9590-9714)*	5	3	4	2.9
Multiple Myeloma	(9730,9732)*	-	0.8	1	0.9
Leukemia	(9800-9941)*	-	1.7	-	1.3
All Cancers	(000-809)	72	79.4	64	79.9

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

GASTON COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	9	11.2	6	5.7
Esophagus	(150-159)	11	6.4	2	2.3
Stomach	(160-169)	14	6.1	7	4.8
Colon & Rectum	(180-209,260)	45	40.3	49	44.2
Liver & Bile Ducts	(220-221)	2	1.9	2	1.1
Gallbladder & Biliary Tract	(239-249)	1	1.5	2	1.6
Pancreas	(250-259)	10	6.3	8	7.2
Digestive Organs	(170-179,210-218,268-269,480-489)	2	1.9	6	3.4
Larynx	(320-329)	15	7	1	1.7
Bronchus & Lung	(340-349)	77	71	31	39.9
Respiratory Organs	(300-319,339,381-399)	2	1.8	-	1
Bones & Joints	(400-419)	-	0.7	-	0.5
Soft Tissue	(380,470-479,490-499)	-	2	1	1.9
Melanoma of Skin	(8720-8790)*	15	10.7	12	9.3
Breast	(500-509)	1	0.7	124	122.2
Cervix Uteri	(530-539)	-	-	12	10.1
Uterus (Corpus,NOS)	(540-559)	-	-	22	19.3
Ovary	(569)	-	-	5	11.8
Prostate	(619)	108	105.6	-	-
Testis	(620-629)	2	3.6	-	-
Bladder	(670-679)	21	18.2	9	7
Kidney & Renal Pelvis	(640-659)	9	9.8	9	6.3
Brain & CNS	(700-729)	4	4.9	3	4.9
Endocrine System	(379,739-759)	4	2.1	6	5.5
Lymphoma	(9590-9714)*	17	13.5	14	12.7
Multiple Myeloma	(9730,9732)*	5	3.7	6	3.9
Leukemia	(9800-9941)*	9	7.7	9	5.7
All Cancers	(000-809)	401	353.1	373	352.2

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

GATES COUNTY 1993

		Male		*Female*	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	-	0.7	-	0.3
Esophagus	(150-159)	-	0.4	-	0.1
Stomach	(160-169)	-	0.4	-	0.3
Colon & Rectum	(180-209,260)	1	2.6	3	2.5
Liver & Bile Ducts	(220-221)	-	0.1	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.1	-	0.1
Pancreas	(250-259)	-	0.4	-	0.4
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.1	-	0.2
Larynx	(320-329)	-	0.4	-	0.1
Bronchus & Lung	(340-349)	1	4.6	-	2.3
Respiratory Organs	(300-319,339,381-399)	-	0.1	-	0.1
Bones & Joints	(400-419)	-	-	-	-
Soft Tissue	(380,470-479,490-499)	1	0.1	-	0.1
Melanoma of Skin	(8720-8790)*	-	0.6	-	0.5
Breast	(500-509)	-	-	3	6.8
Cervix Uteri	(530-539)	-	-	-	0.5
Uterus (Corpus,NOS)	(540-559)	-	-	1	1.1
Ovary	(569)	-	-	-	0.7
Prostate	(619)	2	7.1	-	-
Testis	(620-629)	-	0.2	-	-
Bladder	(670-679)	1	1.2	-	0.4
Kidney & Renal Pelvis	(640-659)	1	0.6	-	0.4
Brain & CNS	(700-729)	-	0.3	-	0.3
Endocrine System	(379,739-759)	-	0.1	-	0.3
Lymphoma	(9590-9714)*	-	0.8	1	0.7
Multiple Myeloma	(9730,9732)*	-	0.2	-	0.2
Leukemia	(9800-9941)*	-	0.5	-	0.3
All Cancers	(000-809)	7	22.5	8	19.8

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

GRAHAM COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	-	0.6	-	0.3
Esophagus	(150-159)	-	0.4	-	0.1
Stomach	(160-169)	-	0.4	-	0.2
Colon & Rectum	(180-209,260)	2	2.4	2	2.2
Liver & Bile Ducts	(220-221)	-	0.1	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.1	-	0.1
Pancreas	(250-259)	-	0.4	2	0.4
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.1	-	0.2
Larynx	(320-329)	-	0.4	-	0.1
Bronchus & Lung	(340-349)	4	4.1	4	2
Respiratory Organs	(300-319,339,381-399)	-	0.1	1	-
Bones & Joints	(400-419)	-	-	-	-
Soft Tissue	(380,470-479,490-499)	-	0.1	-	0.1
Melanoma of Skin	(8720-8790)*	1	0.6	-	0.4
Breast	(500-509)	-	-	6	5.8
Cervix Uteri	(530-539)	-	-	-	0.4
Uterus (Corpus,NOS)	(540-559)	-	-	1	0.9
Ovary	(569)	-	-	-	0.6
Prostate	(619)	6	6.5	-	-
Testis	(620-629)	-	0.1	-	-
Bladder	(670-679)	1	1.1	1	0.3
Kidney & Renal Pelvis	(640-659)	1	0.5	-	0.3
Brain & CNS	(700-729)	-	0.2	-	0.2
Endocrine System	(379,739-759)	-	0.1	-	0.2
Lymphoma	(9590-9714)*	1	0.7	-	0.6
Multiple Myeloma	(9730,9732)*	-	0.2	-	0.2
Leukemia	(9800-9941)*	-	0.4	-	0.3
All Cancers	(000-809)	18	20.4	18	16.9

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

GRANVILLE COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	3	2.7	1	1.3
Esophagus	(150-159)	2	1.5	3	0.5
Stomach	(160-169)	2	1.5	2	1.1
Colon & Rectum	(180-209,260)	10	9.7	6	9.9
Liver & Bile Ducts	(220-221)	-	0.5	-	0.3
Gallbladder & Biliary Tract	(239-249)	1	0.4	1	0.3
Pancreas	(250-259)	-	1.5	1	1.6
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.5	3	0.7
Larynx	(320-329)	1	1.7	-	0.4
Bronchus & Lung	(340-349)	15	16.8	8	8.9
Respiratory Organs	(300-319,339,381-399)	1	0.4	-	0.2
Bones & Joints	(400-419)	-	0.2	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.5	-	0.4
Melanoma of Skin	(8720-8790)*	-	2.6	-	2.1
Breast	(500-509)	-	0.2	21	27.2
Cervix Uteri	(530-539)	-	-	2	2.3
Uterus (Corpus,NOS)	(540-559)	-	-	2	4.3
Ovary	(569)	-	-	-	2.6
Prostate	(619)	23	25	-	-
Testis	(620-629)	-	0.9	-	-
Bladder	(670-679)	2	4.4	1	1.6
Kidney & Renal Pelvis	(640-659)	1	2.3	1	1.4
Brain & CNS	(700-729)	1	1.2	-	1.1
Endocrine System	(379,739-759)	-	0.5	3	1.2
Lymphoma	(9590-9714)*	6	3.3	1	2.8
Multiple Myeloma	(9730,9732)*	1	0.9	3	0.9
Leukemia	(9800-9941)*	-	1.8	2	1.3
All Cancers	(000-809)	73	84.5	65	78.6

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

GREENE COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	1	1	1	0.5
Esophagus	(150-159)	1	0.6	-	0.2
Stomach	(160-169)	2	0.6	-	0.5
Colon & Rectum	(180-209,260)	5	3.7	3	4.2
Liver & Bile Ducts	(220-221)	-	0.2	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.1	1	0.1
Pancreas	(250-259)	-	0.6	1	0.7
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.2	-	0.3
Larynx	(320-329)	1	0.6	-	0.2
Bronchus & Lung	(340-349)	9	6.5	1	3.8
Respiratory Organs	(300-319,339,381-399)	-	0.2	-	0.1
Bones & Joints	(400-419)	-	0.1	-	-
Soft Tissue	(380,470-479,490-499)	1	0.2	-	0.2
Melanoma of Skin	(8720-8790)*	-	1	1	0.8
Breast	(500-509)	-	0.1	13	11.3
Cervix Uteri	(530-539)	-	-	-	0.9
Uterus (Corpus,NOS)	(540-559)	-	-	1	1.8
Ovary	(569)	-	-	-	1.1
Prostate	(619)	11	9.6	-	-
Testis	(620-629)	-	0.4	-	-
Bladder	(670-679)	-	1.7	-	0.7
Kidney & Renal Pelvis	(640-659)	2	0.9	-	0.6
Brain & CNS	(700-729)	-	0.5	-	0.4
Endocrine System	(379,739-759)	-	0.2	-	0.5
Lymphoma	(9590-9714)*	2	1.3	-	1.2
Multiple Myeloma	(9730,9732)*	-	0.3	1	0.4
Leukemia	(9800-9941)*	1	0.7	1	0.5
All Cancers	(000-809)	38	32.6	26	32.8

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

GUILFORD COUNTY 1993

Site	*ICD-O2*	*Male*		*Female*	
		Observed	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	19	22.4	12	11.6
Esophagus	(150-159)	21	12.9	5	4.5
Stomach	(160-169)	8	12.4	11	9.9
Colon & Rectum	(180-209,260)	84	81.7	94	89.3
Liver & Bile Ducts	(220-221)	6	3.9	3	2.3
Gallbladder & Biliary Tract	(239-249)	3	3	3	3.2
Pancreas	(250-259)	10	12.7	15	14.6
Digestive Organs	(170-179,210-218,268-269,480-489)	6	3.8	7	6.8
Larynx	(320-329)	17	14.2	6	3.4
Bronchus & Lung	(340-349)	150	143	96	79.9
Respiratory Organs	(300-319,339,381-399)	4	3.6	-	2.1
Bones & Joints	(400-419)	1	1.4	1	1
Soft Tissue	(380,470-479,490-499)	4	4.1	4	3.8
Melanoma of Skin	(8720-8790)*	19	21.6	12	19.2
Breast	(500-509)	-	1.4	292	247.4
Cervix Uteri	(530-539)	-	-	14	21
Uterus (Corpus,NOS)	(540-559)	-	-	44	38.8
Ovary	(569)	-	-	16	23.9
Prostate	(619)	283	213.9	-	-
Testis	(620-629)	8	7.5	-	-
Bladder	(670-679)	46	36.9	10	14.2
Kidney & Renal Pelvis	(640-659)	24	19.8	7	12.7
Brain & CNS	(700-729)	13	9.9	13	9.8
Endocrine System	(379,739-759)	5	4.2	6	11.3
Lymphoma	(9590-9714)*	32	27.4	26	25.9
Multiple Myeloma	(9730,9732)*	5	7.5	7	7.9
Leukemia	(9800-9941)*	13	15.5	6	11.5
All Cancers	(000-809)	803	714.1	740	713.1

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

HALIFAX COUNTY 1993

Site	*ICD-O2*	*Male*		*Female*	
		Observed	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	8	3.7	2	2
Esophagus	(150-159)	6	2.2	1	0.8
Stomach	(160-169)	2	2.2	1	1.8
Colon & Rectum	(180-209,260)	28	14.3	14	16
Liver & Bile Ducts	(220-221)	-	0.7	-	0.4
Gallbladder & Biliary Tract	(239-249)	-	0.5	1	0.6
Pancreas	(250-259)	2	2.2	3	2.7
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.6	-	1.2
Larynx	(320-329)	1	2.4	2	0.6
Bronchus & Lung	(340-349)	30	24.9	8	14.2
Respiratory Organs	(300-319,339,381-399)	-	0.6	-	0.4
Bones & Joints	(400-419)	-	0.2	1	0.2
Soft Tissue	(380,470-479,490-499)	1	0.7	1	0.6
Melanoma of Skin	(8720-8790)*	4	3.5	1	3.1
Breast	(500-509)	-	0.2	39	41.8
Cervix Uteri	(530-539)	-	-	2	3.4
Uterus (Corpus,NOS)	(540-559)	-	-	2	6.8
Ovary	(569)	-	-	3	4.1
Prostate	(619)	43	38.4	-	-
Testis	(620-629)	1	1.1	-	-
Bladder	(670-679)	11	6.5	6	2.5
Kidney & Renal Pelvis	(640-659)	3	3.4	2	2.3
Brain & CNS	(700-729)	4	1.6	1	1.7
Endocrine System	(379,739-759)	-	0.7	-	1.8
Lymphoma	(9590-9714)*	5	4.5	5	4.4
Multiple Myeloma	(9730,9732)*	-	1.3	2	1.4
Leukemia	(9800-9941)*	4	2.6	2	2
All Cancers	(000-809)	160	124	106	123.3

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

HARNETT COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	6	4.3	2	2.2
Esophagus	(150-159)	1	2.5	-	0.9
Stomach	(160-169)	2	2.4	1	1.9
Colon & Rectum	(180-209,260)	10	15.8	18	17.1
Liver & Bile Ducts	(220-221)	1	0.8	-	0.4
Gallbladder & Biliary Tract	(239-249)	-	0.6	2	0.6
Pancreas	(250-259)	5	2.5	4	2.8
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.7	-	1.3
Larynx	(320-329)	7	2.7	1	0.7
Bronchus & Lung	(340-349)	32	27.7	13	15.5
Respiratory Organs	(300-319,339,381-399)	-	0.7	-	0.4
Bones & Joints	(400-419)	1	0.3	-	0.2
Soft Tissue	(380,470-479,490-499)	1	0.8	-	0.7
Melanoma of Skin	(8720-8790)*	3	4.2	4	3.6
Breast	(500-509)	1	0.3	32	46.9
Cervix Uteri	(530-539)	-	-	6	3.9
Uterus (Corpus,NOS)	(540-559)	-	-	14	7.5
Ovary	(569)	-	-	3	4.6
Prostate	(619)	38	41.6	-	-
Testis	(620-629)	2	1.5	-	-
Bladder	(670-679)	2	7.2	3	2.7
Kidney & Renal Pelvis	(640-659)	4	3.8	5	2.5
Brain & CNS	(700-729)	-	2	3	1.9
Endocrine System	(379,739-759)	2	0.8	1	2.2
Lymphoma	(9590-9714)*	8	5.4	2	5
Multiple Myeloma	(9730,9732)*	-	1.4	2	1.5
Leukemia	(9800-9941)*	3	3.1	1	2.2
All Cancers	(000-809)	136	138.8	123	136.2

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

HAYWOOD COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	-	4.2	1	2.2
Esophagus	(150-159)	1	2.5	-	0.9
Stomach	(160-169)	1	2.6	-	1.9
Colon & Rectum	(180-209,260)	11	16.8	8	17.2
Liver & Bile Ducts	(220-221)	1	0.8	-	0.4
Gallbladder & Biliary Tract	(239-249)	-	0.6	-	0.6
Pancreas	(250-259)	-	2.6	1	2.9
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.7	2	1.2
Larynx	(320-329)	1	2.8	-	0.6
Bronchus & Lung	(340-349)	18	29.1	17	15.2
Respiratory Organs	(300-319,339,381-399)	-	0.7	1	0.4
Bones & Joints	(400-419)	-	0.2	-	0.2
Soft Tissue	(380,470-479,490-499)	1	0.7	-	0.6
Melanoma of Skin	(8720-8790)*	4	3.9	5	3.1
Breast	(500-509)	-	0.3	42	43.9
Cervix Uteri	(530-539)	-	-	6	3.3
Uterus (Corpus,NOS)	(540-559)	-	-	5	7.2
Ovary	(569)	-	-	5	4.3
Prostate	(619)	29	45.6	-	-
Testis	(620-629)	-	0.9	-	-
Bladder	(670-679)	8	7.7	-	2.7
Kidney & Renal Pelvis	(640-659)	1	3.8	1	2.4
Brain & CNS	(700-729)	3	1.7	-	1.6
Endocrine System	(379,739-759)	-	0.7	1	1.7
Lymphoma	(9590-9714)*	3	4.9	4	4.6
Multiple Myeloma	(9730,9732)*	1	1.5	-	1.5
Leukemia	(9800-9941)*	1	2.9	-	2
All Cancers	(000-809)	87	144	104	129.4

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

HENDERSON COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	9	6.7	3	3.4
Esophagus	(150-159)	3	4	-	1.4
Stomach	(160-169)	7	4.4	7	3.1
Colon & Rectum	(180-209,260)	30	28.7	31	27.8
Liver & Bile Ducts	(220-221)	3	1.3	-	0.7
Gallbladder & Biliary Tract	(239-249)	1	1.1	2	1
Pancreas	(250-259)	4	4.5	5	4.7
Digestive Organs	(170-179,210-218,268-269,480-489)	3	1.1	3	1.9
Larynx	(320-329)	4	4.6	-	1
Bronchus & Lung	(340-349)	52	48.9	19	24.1
Respiratory Organs	(300-319,339,381-399)	2	1.2	1	0.6
Bones & Joints	(400-419)	-	0.3	-	0.2
Soft Tissue	(380,470-479,490-499)	-	1.1	-	1
Melanoma of Skin	(8720-8790)*	9	6.2	11	4.8
Breast	(500-509)	-	0.5	83	68.2
Cervix Uteri	(530-539)	-	-	2	5.1
Uterus (Corpus,NOS)	(540-559)	-	-	12	11.3
Ovary	(569)	-	-	10	6.7
Prostate	(619)	84	79.3	-	-
Testis	(620-629)	1	1.3	-	-
Bladder	(670-679)	22	13.3	6	4.4
Kidney & Renal Pelvis	(640-659)	15	6.4	2	3.8
Brain & CNS	(700-729)	4	2.7	4	2.5
Endocrine System	(379,739-759)	1	1	3	2.6
Lymphoma	(9590-9714)*	10	8	5	7.3
Multiple Myeloma	(9730,9732)*	2	2.6	2	2.5
Leukemia	(9800-9941)*	3	4.8	5	3.1
All Cancers	(000-809)	284	243.6	227	204

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

HERTFORD COUNTY 1993

Site	*ICD-O2*	*Male*		*Female*	
		Observed	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	2	1.5	-	0.8
Esophagus	(150-159)	1	0.8	-	0.3
Stomach	(160-169)	-	0.9	-	0.7
Colon & Rectum	(180-209,260)	8	5.6	9	6.6
Liver & Bile Ducts	(220-221)	-	0.3	-	0.2
Gallbladder & Biliary Tract	(239-249)	-	0.2	1	0.2
Pancreas	(250-259)	1	0.9	2	1.1
Digestive Organs	(170-179,210-218,268-269,480-489)	1	0.2	-	0.5
Larynx	(320-329)	1	0.9	1	0.2
Bronchus & Lung	(340-349)	6	9.8	3	5.8
Respiratory Organs	(300-319,339,381-399)	-	0.2	1	0.1
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.3	-	0.3
Melanoma of Skin	(8720-8790)*	-	1.4	-	1.3
Breast	(500-509)	-	0.1	8	17.1
Cervix Uteri	(530-539)	-	-	-	1.4
Uterus (Corpus,NOS)	(540-559)	-	-	6	2.8
Ovary	(569)	-	-	2	1.7
Prostate	(619)	8	15.1	-	-
Testis	(620-629)	-	0.4	-	-
Bladder	(670-679)	2	2.6	-	1.1
Kidney & Renal Pelvis	(640-659)	1	1.3	-	0.9
Brain & CNS	(700-729)	1	0.6	1	0.7
Endocrine System	(379,739-759)	-	0.3	1	0.7
Lymphoma	(9590-9714)*	1	1.8	1	1.8
Multiple Myeloma	(9730,9732)*	-	0.5	-	0.6
Leukemia	(9800-9941)*	1	1	1	0.8
All Cancers	(000-809)	35	48.8	37	50.5

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

HOKE COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	2	1.3	-	0.6
Esophagus	(150-159)	-	0.7	1	0.2
Stomach	(160-169)	4	0.7	2	0.5
Colon & Rectum	(180-209,260)	7	4.5	5	4.8
Liver & Bile Ducts	(220-221)	-	0.2	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.2	-	0.2
Pancreas	(250-259)	2	0.7	1	0.8
Digestive Organs	(170-179,210-218,268-269,480-489)	2	0.2	-	0.4
Larynx	(320-329)	1	0.8	-	0.2
Bronchus & Lung	(340-349)	9	8.1	7	4.4
Respiratory Organs	(300-319,339,381-399)	-	0.2	-	0.1
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.3	-	0.2
Melanoma of Skin	(8720-8790)*	-	1.3	1	1.1
Breast	(500-509)	-	0.1	11	13.9
Cervix Uteri	(530-539)	-	-	2	1.2
Uterus (Corpus,NOS)	(540-559)	-	-	4	2.2
Ovary	(569)	-	-	1	1.3
Prostate	(619)	13	11.8	-	-
Testis	(620-629)	-	0.5	-	-
Bladder	(670-679)	2	2	-	0.8
Kidney & Renal Pelvis	(640-659)	1	1.1	2	0.7
Brain & CNS	(700-729)	-	0.6	-	0.6
Endocrine System	(379,739-759)	1	0.3	-	0.7
Lymphoma	(9590-9714)*	2	1.7	-	1.4
Multiple Myeloma	(9730,9732)*	1	0.4	-	0.4
Leukemia	(9800-9941)*	1	1	-	0.7
All Cancers	(000-809)	51	40.5	39	39.6

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

HYDE COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	-	0.4	-	0.2
Esophagus	(150-159)	-	0.2	-	0.1
Stomach	(160-169)	-	0.3	-	0.2
Colon & Rectum	(180-209,260)	5	1.7	3	1.6
Liver & Bile Ducts	(220-221)	-	0.1	-	-
Gallbladder & Biliary Tract	(239-249)	-	0.1	-	0.1
Pancreas	(250-259)	-	0.3	-	0.3
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.1	-	0.1
Larynx	(320-329)	1	0.3	-	0.1
Bronchus & Lung	(340-349)	5	2.8	3	1.4
Respiratory Organs	(300-319,339,381-399)	-	0.1	-	-
Bones & Joints	(400-419)	-	-	-	-
Soft Tissue	(380,470-479,490-499)	-	0.1	-	0.1
Melanoma of Skin	(8720-8790)*	-	0.4	-	0.3
Breast	(500-509)	-	-	5	4.2
Cervix Uteri	(530-539)	-	-	-	0.3
Uterus (Corpus,NOS)	(540-559)	-	-	-	0.7
Ovary	(569)	-	-	-	0.4
Prostate	(619)	3	4.4	-	-
Testis	(620-629)	-	0.1	-	-
Bladder	(670-679)	1	0.8	-	0.3
Kidney & Renal Pelvis	(640-659)	-	0.4	1	0.2
Brain & CNS	(700-729)	1	0.2	1	0.2
Endocrine System	(379,739-759)	-	0.1	-	0.2
Lymphoma	(9590-9714)*	-	0.5	-	0.4
Multiple Myeloma	(9730,9732)*	-	0.1	-	0.1
Leukemia	(9800-9941)*	-	0.3	-	0.2
All Cancers	(000-809)	16	14.4	15	12.3

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

IREDELL COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	6	6.8	2	3.4
Esophagus	(150-159)	1	3.9	2	1.3
Stomach	(160-169)	1	3.8	3	2.8
Colon & Rectum	(180-209,260)	27	25.1	18	25.9
Liver & Bile Ducts	(220-221)	3	1.2	2	0.7
Gallbladder & Biliary Tract	(239-249)	1	0.9	2	0.9
Pancreas	(250-259)	1	3.9	3	4.3
Digestive Organs	(170-179,210-218,268-269,480-489)	2	1.1	7	2
Larynx	(320-329)	4	4.3	3	1
Bronchus & Lung	(340-349)	28	43.8	18	23.4
Respiratory Organs	(300-319,339,381-399)	1	1.1	-	0.6
Bones & Joints	(400-419)	-	0.4	-	0.3
Soft Tissue	(380,470-479,490-499)	1	1.2	-	1.1
Melanoma of Skin	(8720-8790)*	5	6.4	6	5.3
Breast	(500-509)	-	0.4	63	71.1
Cervix Uteri	(530-539)	-	-	5	5.8
Uterus (Corpus,NOS)	(540-559)	-	-	11	11.3
Ovary	(569)	-	-	6	6.8
Prostate	(619)	80	65.9	-	-
Testis	(620-629)	1	2	-	-
Bladder	(670-679)	12	11.4	5	4.1
Kidney & Renal Pelvis	(640-659)	10	6	2	3.7
Brain & CNS	(700-729)	2	2.9	2	2.8
Endocrine System	(379,739-759)	1	1.2	8	3.1
Lymphoma	(9590-9714)*	3	8.1	8	7.3
Multiple Myeloma	(9730,9732)*	1	2.3	3	2.3
Leukemia	(9800-9941)*	3	4.6	5	3.3
All Cancers	(000-809)	205	217.6	191	205.2

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

JACKSON COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	1	1.9	2	1
Esophagus	(150-159)	1	1.1	3	0.4
Stomach	(160-169)	-	1.2	-	0.8
Colon & Rectum	(180-209,260)	5	7.5	5	7.5
Liver & Bile Ducts	(220-221)	-	0.3	1	0.2
Gallbladder & Biliary Tract	(239-249)	-	0.3	1	0.3
Pancreas	(250-259)	-	1.2	-	1.2
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.3	-	0.6
Larynx	(320-329)	-	1.3	-	0.3
Bronchus & Lung	(340-349)	12	12.9	5	6.6
Respiratory Organs	(300-319,339,381-399)	-	0.3	-	0.2
Bones & Joints	(400-419)	-	0.1	1	0.1
Soft Tissue	(380,470-479,490-499)	-	0.3	-	0.3
Melanoma of Skin	(8720-8790)*	-	1.8	1	1.5
Breast	(500-509)	-	0.1	21	20
Cervix Uteri	(530-539)	-	-	5	1.6
Uterus (Corpus,NOS)	(540-559)	-	-	5	3.2
Ovary	(569)	-	-	2	1.9
Prostate	(619)	24	19.9	-	-
Testis	(620-629)	1	0.5	-	-
Bladder	(670-679)	2	3.4	-	1.2
Kidney & Renal Pelvis	(640-659)	-	1.7	-	1
Brain & CNS	(700-729)	-	0.8	-	0.8
Endocrine System	(379,739-759)	-	0.3	2	0.9
Lymphoma	(9590-9714)*	1	2.3	4	2.1
Multiple Myeloma	(9730,9732)*	-	0.7	-	0.7
Leukemia	(9800-9941)*	3	1.4	-	0.9
All Cancers	(000-809)	52	64.2	59	58.3

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

JOHNSTON COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	7	5.7	1	2.9
Esophagus	(150-159)	7	3.3	-	1.1
Stomach	(160-169)	5	3.2	5	2.4
Colon & Rectum	(180-209,260)	23	20.8	18	22.1
Liver & Bile Ducts	(220-221)	2	1	1	0.6
Gallbladder & Biliary Tract	(239-249)	-	0.8	-	0.8
Pancreas	(250-259)	5	3.2	2	3.6
Digestive Organs	(170-179,210-218,268-269,480-489)	2	1	-	1.7
Larynx	(320-329)	2	3.6	-	0.9
Bronchus & Lung	(340-349)	38	36.5	23	20.1
Respiratory Organs	(300-319,339,381-399)	1	0.9	-	0.5
Bones & Joints	(400-419)	1	0.3	-	0.2
Soft Tissue	(380,470-479,490-499)	1	1	-	0.9
Melanoma of Skin	(8720-8790)*	1	5.5	2	4.7
Breast	(500-509)	-	0.3	61	61.6
Cervix Uteri	(530-539)	-	-	3	5.1
Uterus (Corpus,NOS)	(540-559)	-	-	12	9.7
Ovary	(569)	-	-	6	5.9
Prostate	(619)	53	54.3	-	-
Testis	(620-629)	-	1.8	-	-
Bladder	(670-679)	6	9.4	6	3.5
Kidney & Renal Pelvis	(640-659)	3	5.1	7	3.2
Brain & CNS	(700-729)	1	2.5	-	2.4
Endocrine System	(379,739-759)	-	1.1	3	2.8
Lymphoma	(9590-9714)*	10	6.9	10	6.3
Multiple Myeloma	(9730,9732)*	-	1.9	1	2
Leukemia	(9800-9941)*	5	3.9	-	2.8
All Cancers	(000-809)	178	181.4	172	176.9

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

JONES COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	1	0.7	1	0.3
Esophagus	(150-159)	-	0.4	-	0.1
Stomach	(160-169)	-	0.4	-	0.3
Colon & Rectum	(180-209,260)	8	2.5	2	2.6
Liver & Bile Ducts	(220-221)	1	0.1	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.1	-	0.1
Pancreas	(250-259)	2	0.4	-	0.4
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.1	-	0.2
Larynx	(320-329)	-	0.4	-	0.1
Bronchus & Lung	(340-349)	8	4.4	2	2.4
Respiratory Organs	(300-319,339,381-399)	-	0.1	-	0.1
Bones & Joints	(400-419)	-	-	-	-
Soft Tissue	(380,470-479,490-499)	-	0.1	-	0.1
Melanoma of Skin	(8720-8790)*	-	0.6	-	0.5
Breast	(500-509)	-	-	11	7.1
Cervix Uteri	(530-539)	-	-	-	0.6
Uterus (Corpus,NOS)	(540-559)	-	-	-	1.1
Ovary	(569)	-	-	-	0.7
Prostate	(619)	6	6.7	-	-
Testis	(620-629)	-	0.2	-	-
Bladder	(670-679)	-	1.1	1	0.4
Kidney & Renal Pelvis	(640-659)	-	0.6	-	0.4
Brain & CNS	(700-729)	-	0.3	-	0.3
Endocrine System	(379,739-759)	-	0.1	-	0.3
Lymphoma	(9590-9714)*	4	0.8	-	0.7
Multiple Myeloma	(9730,9732)*	1	0.2	1	0.2
Leukemia	(9800-9941)*	-	0.5	-	0.3
All Cancers	(000-809)	33	21.7	19	20.5

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

LEE COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	2	3	3	1.5
Esophagus	(150-159)	3	1.7	1	0.6
Stomach	(160-169)	1	1.7	3	1.2
Colon & Rectum	(180-209,260)	12	11.1	10	11.3
Liver & Bile Ducts	(220-221)	2	0.5	1	0.3
Gallbladder & Biliary Tract	(239-249)	-	0.4	3	0.4
Pancreas	(250-259)	2	1.8	2	1.9
Digestive Organs	(170-179,210-218,268-269,480-489)	1	0.5	2	0.9
Larynx	(320-329)	2	1.9	1	0.4
Bronchus & Lung	(340-349)	28	19.8	13	10.5
Respiratory Organs	(300-319,339,381-399)	-	0.5	-	0.3
Bones & Joints	(400-419)	-	0.2	1	0.1
Soft Tissue	(380,470-479,490-499)	-	0.5	1	0.5
Melanoma of Skin	(8720-8790)*	1	2.8	1	2.3
Breast	(500-509)	-	0.2	28	31.4
Cervix Uteri	(530-539)	-	-	3	2.5
Uterus (Corpus,NOS)	(540-559)	-	-	4	5
Ovary	(569)	-	-	4	3
Prostate	(619)	25	30	-	-
Testis	(620-629)	1	0.9	-	-
Bladder	(670-679)	3	5.1	5	1.8
Kidney & Renal Pelvis	(640-659)	2	2.7	1	1.6
Brain & CNS	(700-729)	2	1.3	-	1.2
Endocrine System	(379,739-759)	-	0.5	1	1.4
Lymphoma	(9590-9714)*	4	3.6	2	3.2
Multiple Myeloma	(9730,9732)*	1	1	4	1
Leukemia	(9800-9941)*	-	2	-	1.4
All Cancers	(000-809)	97	97.6	98	90.4

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

LENOIR COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	3	3.8	4	2.1
Esophagus	(150-159)	4	2.2	-	0.8
Stomach	(160-169)	1	2.2	1	1.8
Colon & Rectum	(180-209,260)	27	14.3	25	16.6
Liver & Bile Ducts	(220-221)	2	0.7	-	0.4
Gallbladder & Biliary Tract	(239-249)	2	0.5	-	0.6
Pancreas	(250-259)	6	2.2	2	2.8
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.6	2	1.2
Larynx	(320-329)	3	2.5	2	0.6
Bronchus & Lung	(340-349)	43	25.3	21	15.1
Respiratory Organs	(300-319,339,381-399)	2	0.6	2	0.4
Bones & Joints	(400-419)	-	0.2	-	0.2
Soft Tissue	(380,470-479,490-499)	-	0.7	1	0.7
Melanoma of Skin	(8720-8790)*	4	3.6	2	3.3
Breast	(500-509)	-	0.2	44	45
Cervix Uteri	(530-539)	-	-	5	3.6
Uterus (Corpus,NOS)	(540-559)	-	-	5	7.2
Ovary	(569)	-	-	4	4.4
Prostate	(619)	47	38.3	-	-
Testis	(620-629)	1	1.1	-	-
Bladder	(670-679)	7	6.5	2	2.6
Kidney & Renal Pelvis	(640-659)	8	3.4	2	2.4
Brain & CNS	(700-729)	1	1.7	-	1.7
Endocrine System	(379,739-759)	-	0.7	-	1.9
Lymphoma	(9590-9714)*	4	4.6	9	4.7
Multiple Myeloma	(9730,9732)*	3	1.3	3	1.5
Leukemia	(9800-9941)*	2	2.6	1	2.1
All Cancers	(000-809)	179	124.8	146	130.5

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

LINCOLN COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	4	3.5	2	1.6
Esophagus	(150-159)	1	2	-	0.6
Stomach	(160-169)	5	1.9	1	1.4
Colon & Rectum	(180-209,260)	18	12.6	16	12.6
Liver & Bile Ducts	(220-221)	-	0.6	-	0.3
Gallbladder & Biliary Tract	(239-249)	-	0.5	-	0.4
Pancreas	(250-259)	1	2	3	2.1
Digestive Organs	(170-179,210-218,268-269,480-489)	3	0.6	-	1
Larynx	(320-329)	1	2.2	2	0.5
Bronchus & Lung	(340-349)	25	22.3	6	11.6
Respiratory Organs	(300-319,339,381-399)	-	0.6	2	0.3
Bones & Joints	(400-419)	-	0.2	-	0.1
Soft Tissue	(380,470-479,490-499)	1	0.6	-	0.5
Melanoma of Skin	(8720-8790)*	4	3.4	1	2.7
Breast	(500-509)	-	0.2	44	35.9
Cervix Uteri	(530-539)	-	-	4	3
Uterus (Corpus,NOS)	(540-559)	-	-	7	5.6
Ovary	(569)	-	-	3	3.4
Prostate	(619)	39	32.9	-	-
Testis	(620-629)	2	1.1	-	-
Bladder	(670-679)	2	5.7	2	2
Kidney & Renal Pelvis	(640-659)	5	3.1	2	1.8
Brain & CNS	(700-729)	-	1.5	3	1.4
Endocrine System	(379,739-759)	1	0.7	1	1.6
Lymphoma	(9590-9714)*	4	4.2	6	3.6
Multiple Myeloma	(9730,9732)*	2	1.2	-	1.1
Leukemia	(9800-9941)*	4	2.4	1	1.6
All Cancers	(000-809)	126	110.5	113	101.9

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

MACON COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	-	2.4	1	1.2
Esophagus	(150-159)	1	1.5	-	0.5
Stomach	(160-169)	1	1.6	-	1.1
Colon & Rectum	(180-209,260)	19	10.5	13	9.7
Liver & Bile Ducts	(220-221)	-	0.5	-	0.2
Gallbladder & Biliary Tract	(239-249)	-	0.4	-	0.3
Pancreas	(250-259)	1	1.6	1	1.6
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.4	-	0.7
Larynx	(320-329)	2	1.7	-	0.4
Bronchus & Lung	(340-349)	17	17.7	9	8.6
Respiratory Organs	(300-319,339,381-399)	1	0.4	-	0.2
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	1	0.4	2	0.3
Melanoma of Skin	(8720-8790)*	2	2.2	1	1.7
Breast	(500-509)	-	0.2	24	24.2
Cervix Uteri	(530-539)	-	-	1	1.8
Uterus (Corpus,NOS)	(540-559)	-	-	5	4
Ovary	(569)	-	-	2	2.4
Prostate	(619)	44	28.7	-	-
Testis	(620-629)	-	0.4	-	-
Bladder	(670-679)	4	4.8	-	1.6
Kidney & Renal Pelvis	(640-659)	4	2.3	2	1.3
Brain & CNS	(700-729)	-	1	-	0.9
Endocrine System	(379,739-759)	-	0.4	-	0.9
Lymphoma	(9590-9714)*	4	2.9	1	2.6
Multiple Myeloma	(9730,9732)*	-	1	2	0.9
Leukemia	(9800-9941)*	4	1.7	3	1.1
All Cancers	(000-809)	106	88.3	72	72.1

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

MADISON COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	1	1.4	1	0.7
Esophagus	(150-159)	1	0.8	-	0.3
Stomach	(160-169)	2	0.9	-	0.6
Colon & Rectum	(180-209,260)	2	5.6	5	5.2
Liver & Bile Ducts	(220-221)	-	0.2	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.2	1	0.2
Pancreas	(250-259)	1	0.9	1	0.9
Digestive Organs	(170-179,210-218,268-269,480-489)	1	0.2	-	0.4
Larynx	(320-329)	-	0.9	-	0.2
Bronchus & Lung	(340-349)	7	9.5	3	4.5
Respiratory Organs	(300-319,339,381-399)	-	0.2	-	0.1
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.2	-	0.2
Melanoma of Skin	(8720-8790)*	3	1.3	3	1
Breast	(500-509)	-	0.1	10	13.4
Cervix Uteri	(530-539)	-	-	-	1
Uterus (Corpus,NOS)	(540-559)	-	-	1	2.2
Ovary	(569)	-	-	-	1.3
Prostate	(619)	13	15	-	-
Testis	(620-629)	-	0.3	-	-
Bladder	(670-679)	5	2.6	2	0.8
Kidney & Renal Pelvis	(640-659)	1	1.3	-	0.7
Brain & CNS	(700-729)	1	0.6	-	0.5
Endocrine System	(379,739-759)	-	0.2	-	0.6
Lymphoma	(9590-9714)*	2	1.7	4	1.4
Multiple Myeloma	(9730,9732)*	-	0.5	1	0.5
Leukemia	(9800-9941)*	-	1	-	0.6
All Cancers	(000-809)	43	47.6	34	39.6

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

MARTIN COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	3	1.7	1	1
Esophagus	(150-159)	2	1	1	0.4
Stomach	(160-169)	-	1	1	0.8
Colon & Rectum	(180-209,260)	5	6.6	10	7.5
Liver & Bile Ducts	(220-221)	-	0.3	-	0.2
Gallbladder & Biliary Tract	(239-249)	1	0.2	-	0.3
Pancreas	(250-259)	1	1	-	1.2
Digestive Organs	(170-179,210-218,268-269,480-489)	1	0.3	1	0.5
Larynx	(320-329)	-	1.1	-	0.3
Bronchus & Lung	(340-349)	12	11.6	6	6.7
Respiratory Organs	(300-319,339,381-399)	-	0.3	-	0.2
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.3	-	0.3
Melanoma of Skin	(8720-8790)*	3	1.6	-	1.5
Breast	(500-509)	-	0.1	16	19.8
Cervix Uteri	(530-539)	-	-	2	1.6
Uterus (Corpus,NOS)	(540-559)	-	-	4	3.2
Ovary	(569)	-	-	1	1.9
Prostate	(619)	10	17.6	-	-
Testis	(620-629)	2	0.5	-	-
Bladder	(670-679)	5	3	1	1.2
Kidney & Renal Pelvis	(640-659)	1	1.6	2	1.1
Brain & CNS	(700-729)	-	0.7	2	0.8
Endocrine System	(379,739-759)	-	0.3	2	0.8
Lymphoma	(9590-9714)*	-	2.1	2	2.1
Multiple Myeloma	(9730,9732)*	-	0.6	-	0.7
Leukemia	(9800-9941)*	1	1.2	-	0.9
All Cancers	(000-809)	50	57.1	52	58.1

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

McDOWELL COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	-	2.7	3	1.3
Esophagus	(150-159)	-	1.6	-	0.5
Stomach	(160-169)	-	1.6	1	1.1
Colon & Rectum	(180-209,260)	9	10.2	12	10.3
Liver & Bile Ducts	(220-221)	1	0.5	-	0.3
Gallbladder & Biliary Tract	(239-249)	2	0.4	-	0.4
Pancreas	(250-259)	2	1.6	1	1.7
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.4	-	0.8
Larynx	(320-329)	2	1.7	-	0.4
Bronchus & Lung	(340-349)	21	17.8	11	9.2
Respiratory Organs	(300-319,339,381-399)	2	0.4	-	0.2
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.5	1	0.4
Melanoma of Skin	(8720-8790)*	5	2.5	2	2
Breast	(500-509)	-	0.2	26	27.5
Cervix Uteri	(530-539)	-	-	4	2.2
Uterus (Corpus,NOS)	(540-559)	-	-	9	4.4
Ovary	(569)	-	-	2	2.7
Prostate	(619)	23	27.2	-	-
Testis	(620-629)	1	0.7	-	-
Bladder	(670-679)	3	4.6	2	1.6
Kidney & Renal Pelvis	(640-659)	1	2.4	-	1.4
Brain & CNS	(700-729)	-	1.1	1	1
Endocrine System	(379,739-759)	1	0.5	-	1.2
Lymphoma	(9590-9714)*	4	3.2	6	2.9
Multiple Myeloma	(9730,9732)*	3	0.9	2	0.9
Leukemia	(9800-9941)*	-	1.8	2	1.3
All Cancers	(000-809)	82	88.2	87	80

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

MECKLENBURG COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	24	29.5	14	14.5
Esophagus	(150-159)	20	16.5	7	5.6
Stomach	(160-169)	16	15.4	15	11.9
Colon & Rectum	(180-209,260)	113	101.8	127	108.7
Liver & Bile Ducts	(220-221)	7	4.9	4	2.9
Gallbladder & Biliary Tract	(239-249)	2	3.8	4	3.9
Pancreas	(250-259)	19	15.7	17	17.5
Digestive Organs	(170-179,210-218,268-269,480-489)	8	5.3	12	8.8
Larynx	(320-329)	14	18.2	6	4.3
Bronchus & Lung	(340-349)	168	177.9	119	99.2
Respiratory Organs	(300-319,339,381-399)	3	4.7	2	2.7
Bones & Joints	(400-419)	3	2	1	1.4
Soft Tissue	(380,470-479,490-499)	5	5.7	7	5.1
Melanoma of Skin	(8720-8790)*	15	29.2	17	26.3
Breast	(500-509)	2	1.8	379	323.1
Cervix Uteri	(530-539)	-	-	24	29.4
Uterus (Corpus,NOS)	(540-559)	-	-	48	49.1
Ovary	(569)	-	-	33	30.9
Prostate	(619)	346	257.9	-	-
Testis	(620-629)	16	12.3	-	-
Bladder	(670-679)	52	45.5	15	17.2
Kidney & Renal Pelvis	(640-659)	35	25.5	10	16
Brain & CNS	(700-729)	10	13.8	11	13.5
Endocrine System	(379,739-759)	5	6.1	21	16.3
Lymphoma	(9590-9714)*	41	37.6	38	33
Multiple Myeloma	(9730,9732)*	9	9.3	12	9.5
Leukemia	(9800-9941)*	12	20.8	15	15.2
All Cancers	(000-809)	985	899.2	1001	913.1

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

MITCHELL COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	-	1.2	1	0.6
Esophagus	(150-159)	-	0.7	-	0.2
Stomach	(160-169)	1	0.7	1	0.5
Colon & Rectum	(180-209,260)	6	4.8	4	4.9
Liver & Bile Ducts	(220-221)	-	0.2	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.2	-	0.2
Pancreas	(250-259)	1	0.8	1	0.8
Digestive Organs	(170-179,210-218,268-269,480-489)	1	0.2	-	0.3
Larynx	(320-329)	-	0.8	-	0.2
Bronchus & Lung	(340-349)	11	8.3	1	4.3
Respiratory Organs	(300-319,339,381-399)	-	0.2	-	0.1
Bones & Joints	(400-419)	1	0.1	-	-
Soft Tissue	(380,470-479,490-499)	-	0.2	-	0.2
Melanoma of Skin	(8720-8790)*	2	1.1	1	0.9
Breast	(500-509)	-	0.1	10	12.5
Cervix Uteri	(530-539)	-	-	1	1
Uterus (Corpus,NOS)	(540-559)	-	-	1	2
Ovary	(569)	-	-	1	1.2
Prostate	(619)	4	13	-	-
Testis	(620-629)	-	0.3	-	-
Bladder	(670-679)	-	2.2	-	0.8
Kidney & Renal Pelvis	(640-659)	-	1.1	2	0.7
Brain & CNS	(700-729)	-	0.5	-	0.5
Endocrine System	(379,739-759)	-	0.2	1	0.5
Lymphoma	(9590-9714)*	-	1.4	1	1.3
Multiple Myeloma	(9730,9732)*	-	0.4	-	0.4
Leukemia	(9800-9941)*	-	0.8	1	0.6
All Cancers	(000-809)	31	41.2	30	36.7

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

MONTGOMERY COUNTY 1993

		Male		*Female*	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	3	1.6	2	0.8
Esophagus	(150-159)	-	0.9	-	0.3
Stomach	(160-169)	-	0.9	1	0.7
Colon & Rectum	(180-209,260)	3	5.9	6	6
Liver & Bile Ducts	(220-221)	-	0.3	-	0.2
Gallbladder & Biliary Tract	(239-249)	-	0.2	-	0.2
Pancreas	(250-259)	1	0.9	-	1
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.3	-	0.4
Larynx	(320-329)	-	1	-	0.2
Bronchus & Lung	(340-349)	8	10.3	5	5.4
Respiratory Organs	(300-319,339,381-399)	-	0.3	-	0.1
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.3	-	0.2
Melanoma of Skin	(8720-8790)*	-	1.5	-	1.2
Breast	(500-509)	-	0.1	13	16
Cervix Uteri	(530-539)	-	-	1	1.3
Uterus (Corpus,NOS)	(540-559)	-	-	2	2.6
Ovary	(569)	-	-	1	1.5
Prostate	(619)	21	15.6	-	-
Testis	(620-629)	-	0.5	-	-
Bladder	(670-679)	4	2.7	1	0.9
Kidney & Renal Pelvis	(640-659)	2	1.4	-	0.8
Brain & CNS	(700-729)	-	0.7	-	0.6
Endocrine System	(379,739-759)	-	0.3	-	0.7
Lymphoma	(9590-9714)*	5	1.9	1	1.7
Multiple Myeloma	(9730,9732)*	1	0.5	2	0.5
Leukemia	(9800-9941)*	1	1.1	1	0.7
All Cancers	(000-809)	49	51.4	41	46.5

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

MOORE COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	5	5.5	2	2.9
Esophagus	(150-159)	2	3.3	1	1.1
Stomach	(160-169)	5	3.5	1	2.5
Colon & Rectum	(180-209,260)	32	23.1	19	22.6
Liver & Bile Ducts	(220-221)	1	1.1	-	0.6
Gallbladder & Biliary Tract	(239-249)	3	0.9	1	0.8
Pancreas	(250-259)	6	3.7	6	3.8
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.9	1	1.6
Larynx	(320-329)	3	3.8	-	0.8
Bronchus & Lung	(340-349)	31	40.5	25	20.4
Respiratory Organs	(300-319,339,381-399)	1	1	-	0.5
Bones & Joints	(400-419)	-	0.3	1	0.2
Soft Tissue	(380,470-479,490-499)	-	0.9	-	0.8
Melanoma of Skin	(8720-8790)*	9	5.1	6	4
Breast	(500-509)	1	0.4	70	56.4
Cervix Uteri	(530-539)	-	-	1	4.2
Uterus (Corpus,NOS)	(540-559)	-	-	7	9.5
Ovary	(569)	-	-	6	5.5
Prostate	(619)	93	65.5	-	-
Testis	(620-629)	1	1.1	-	-
Bladder	(670-679)	19	10.8	6	3.6
Kidney & Renal Pelvis	(640-659)	11	5.3	5	3.1
Brain & CNS	(700-729)	5	2.2	5	2.2
Endocrine System	(379,739-759)	-	0.8	-	2.2
Lymphoma	(9590-9714)*	5	6.6	9	6
Multiple Myeloma	(9730,9732)*	2	2.1	2	2
Leukemia	(9800-9941)*	1	3.8	3	2.6
All Cancers	(000-809)	240	200	181	168.8

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

NASH COUNTY 1993

Site	*ICD-O2*	*Male*		*Female*	
		Observed	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	8	5.1	4	2.6
Esophagus	(150-159)	2	2.9	-	1
Stomach	(160-169)	1	2.8	5	2.2
Colon & Rectum	(180-209,260)	15	18.5	29	20.2
Liver & Bile Ducts	(220-221)	-	0.9	-	0.5
Gallbladder & Biliary Tract	(239-249)	-	0.7	1	0.7
Pancreas	(250-259)	3	2.9	10	3.3
Digestive Organs	(170-179,210-218,268-269,480-489)	1	0.9	1	1.5
Larynx	(320-329)	6	3.2	1	0.8
Bronchus & Lung	(340-349)	42	32.5	22	18.3
Respiratory Organs	(300-319,339,381-399)	1	0.8	-	0.5
Bones & Joints	(400-419)	1	0.3	-	0.2
Soft Tissue	(380,470-479,490-499)	1	0.9	1	0.9
Melanoma of Skin	(8720-8790)*	6	4.9	1	4.3
Breast	(500-509)	-	0.3	60	56.2
Cervix Uteri	(530-539)	-	-	7	4.7
Uterus (Corpus,NOS)	(540-559)	-	-	8	8.9
Ovary	(569)	-	-	3	5.4
Prostate	(619)	44	48.5	-	-
Testis	(620-629)	-	1.6	-	-
Bladder	(670-679)	13	8.4	2	3.2
Kidney & Renal Pelvis	(640-659)	3	4.5	6	2.9
Brain & CNS	(700-729)	3	2.2	1	2.2
Endocrine System	(379,739-759)	-	1	3	2.6
Lymphoma	(9590-9714)*	6	6.2	10	5.8
Multiple Myeloma	(9730,9732)*	3	1.7	-	1.8
Leukemia	(9800-9941)*	4	3.5	3	2.6
All Cancers	(000-809)	171	161.8	186	161.7

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

NEW HANOVER COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	3	8.5	3	4.3
Esophagus	(150-159)	7	4.9	3	1.7
Stomach	(160-169)	7	4.7	4	3.6
Colon & Rectum	(180-209,260)	33	31.1	26	32.9
Liver & Bile Ducts	(220-221)	1	1.5	2	0.9
Gallbladder & Biliary Tract	(239-249)	1	1.2	-	1.2
Pancreas	(250-259)	4	4.9	3	5.4
Digestive Organs	(170-179,210-218,268-269,480-489)	2	1.4	-	2.5
Larynx	(320-329)	7	5.4	-	1.3
Bronchus & Lung	(340-349)	69	55	44	29.9
Respiratory Organs	(300-319,339,381-399)	-	1.4	2	0.8
Bones & Joints	(400-419)	-	0.5	-	0.4
Soft Tissue	(380,470-479,490-499)	1	1.5	3	1.4
Melanoma of Skin	(8720-8790)*	5	8.1	4	7
Breast	(500-509)	-	0.5	105	91.9
Cervix Uteri	(530-539)	-	-	10	7.7
Uterus (Corpus,NOS)	(540-559)	-	-	9	14.5
Ovary	(569)	-	-	5	8.8
Prostate	(619)	58	82.8	-	-
Testis	(620-629)	3	2.7	-	-
Bladder	(670-679)	15	14.1	1	5.2
Kidney & Renal Pelvis	(640-659)	8	7.6	5	4.7
Brain & CNS	(700-729)	3	3.7	3	3.6
Endocrine System	(379,739-759)	2	1.5	6	4.2
Lymphoma	(9590-9714)*	14	10.3	9	9.5
Multiple Myeloma	(9730,9732)*	5	2.8	3	2.9
Leukemia	(9800-9941)*	1	5.8	2	4.2
All Cancers	(000-809)	264	273	272	264.1

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

NORTHAMPTON COUNTY 1993

		Male		*Female*	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	1	1.6	-	0.8
Esophagus	(150-159)	1	0.9	-	0.3
Stomach	(160-169)	1	1	3	0.7
Colon & Rectum	(180-209,260)	2	6.3	4	6.4
Liver & Bile Ducts	(220-221)	-	0.3	-	0.2
Gallbladder & Biliary Tract	(239-249)	2	0.2	-	0.2
Pancreas	(250-259)	-	1	1	1.1
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.3	-	0.5
Larynx	(320-329)	-	1	-	0.2
Bronchus & Lung	(340-349)	9	10.9	6	5.9
Respiratory Organs	(300-319,339,381-399)	1	0.3	-	0.1
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.3	-	0.2
Melanoma of Skin	(8720-8790)*	-	1.5	1	1.2
Breast	(500-509)	-	0.1	15	16.7
Cervix Uteri	(530-539)	-	-	1	1.3
Uterus (Corpus,NOS)	(540-559)	-	-	3	2.8
Ovary	(569)	-	-	4	1.6
Prostate	(619)	10	17.1	-	-
Testis	(620-629)	-	0.4	-	-
Bladder	(670-679)	-	2.9	-	1
Kidney & Renal Pelvis	(640-659)	1	1.5	1	0.9
Brain & CNS	(700-729)	1	0.7	-	0.6
Endocrine System	(379,739-759)	1	0.3	1	0.7
Lymphoma	(9590-9714)*	-	1.9	1	1.8
Multiple Myeloma	(9730,9732)*	-	0.6	-	0.6
Leukemia	(9800-9941)*	-	1.1	1	0.8
All Cancers	(000-809)	32	54.5	42	49.3

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

ONSLOW COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	7	5	3	2.1
Esophagus	(150-159)	3	2.7	1	0.8
Stomach	(160-169)	2	2.5	-	1.7
Colon & Rectum	(180-209,260)	11	16.2	10	15.2
Liver & Bile Ducts	(220-221)	1	0.8	2	0.4
Gallbladder & Biliary Tract	(239-249)	2	0.6	2	0.6
Pancreas	(250-259)	2	2.4	1	2.5
Digestive Organs	(170-179,210-218,268-269,480-489)	1	1	2	1.4
Larynx	(320-329)	2	3	-	0.7
Bronchus & Lung	(340-349)	26	27.7	18	14.6
Respiratory Organs	(300-319,339,381-399)	1	0.9	1	0.4
Bones & Joints	(400-419)	1	0.7	-	0.3
Soft Tissue	(380,470-479,490-499)	-	1.2	-	0.9
Melanoma of Skin	(8720-8790)*	4	5.5	1	4.3
Breast	(500-509)	-	0.3	28	48.2
Cervix Uteri	(530-539)	-	-	4	4.9
Uterus (Corpus,NOS)	(540-559)	-	-	9	7.3
Ovary	(569)	-	-	6	4.7
Prostate	(619)	36	38.7	-	-
Testis	(620-629)	3	4.7	-	-
Bladder	(670-679)	10	7	2	2.4
Kidney & Renal Pelvis	(640-659)	5	4.2	-	2.5
Brain & CNS	(700-729)	2	3.2	-	2.4
Endocrine System	(379,739-759)	2	1.5	1	2.9
Lymphoma	(9590-9714)*	4	8.3	6	5.4
Multiple Myeloma	(9730,9732)*	2	1.5	-	1.4
Leukemia	(9800-9941)*	4	4.6	1	2.6
All Cancers	(000-809)	135	150.9	105	137.6

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

ORANGE COUNTY 1993

Site	ICD-O2	Male		Female	
		Observed	Expected	Observed	Expected
Oral Cavity & Pharynx	(000-148)	7	5	5	2.5
Esophagus	(150-159)	6	2.8	1	0.9
Stomach	(160-169)	4	2.7	1	2.1
Colon & Rectum	(180-209,260)	18	18	17	18.4
Liver & Bile Ducts	(220-221)	-	0.8	-	0.5
Gallbladder & Biliary Tract	(239-249)	2	0.7	2	0.7
Pancreas	(250-259)	1	2.7	1	3
Digestive Organs	(170-179,210-218,268-269,480-489)	1	0.9	2	1.5
Larynx	(320-329)	6	3.1	2	0.7
Bronchus & Lung	(340-349)	18	30.7	25	16.4
Respiratory Organs	(300-319,339,381-399)	-	0.8	-	0.5
Bones & Joints	(400-419)	-	0.4	-	0.3
Soft Tissue	(380,470-479,490-499)	1	1	-	0.9
Melanoma of Skin	(8720-8790)*	5	5.1	7	4.7
Breast	(500-509)	-	0.3	74	54.2
Cervix Uteri	(530-539)	-	-	3	5.2
Uterus (Corpus,NOS)	(540-559)	-	-	11	8.2
Ovary	(569)	-	-	5	5.3
Prostate	(619)	65	45.3	-	-
Testis	(620-629)	1	2.4	-	-
Bladder	(670-679)	6	8	4	2.9
Kidney & Renal Pelvis	(640-659)	3	4.4	7	2.7
Brain & CNS	(700-729)	2	2.4	5	2.3
Endocrine System	(379,739-759)	2	1.1	3	2.9
Lymphoma	(9590-9714)*	12	6.7	4	6
Multiple Myeloma	(9730,9732)*	2	1.6	1	1.6
Leukemia	(9800-9941)*	6	3.7	4	2.6
All Cancers	(000-809)	175	157.3	191	155

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

PAMLICO COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	-	1	-	0.5
Esophagus	(150-159)	-	0.6	-	0.2
Stomach	(160-169)	1	0.6	-	0.4
Colon & Rectum	(180-209,260)	2	3.8	5	3.8
Liver & Bile Ducts	(220-221)	-	0.2	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.1	-	0.1
Pancreas	(250-259)	-	0.6	1	0.6
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.2	-	0.3
Larynx	(320-329)	-	0.6	-	0.1
Bronchus & Lung	(340-349)	7	6.8	6	3.4
Respiratory Organs	(300-319,339,381-399)	-	0.2	-	0.1
Bones & Joints	(400-419)	-	-	1	-
Soft Tissue	(380,470-479,490-499)	1	0.2	-	0.1
Melanoma of Skin	(8720-8790)*	2	0.9	-	0.7
Breast	(500-509)	-	0.1	10	9.9
Cervix Uteri	(530-539)	-	-	1	0.8
Uterus (Corpus,NOS)	(540-559)	-	-	4	1.6
Ovary	(569)	-	-	-	1
Prostate	(619)	8	10.5	-	-
Testis	(620-629)	-	0.2	-	-
Bladder	(670-679)	1	1.7	-	0.6
Kidney & Renal Pelvis	(640-659)	-	0.9	-	0.5
Brain & CNS	(700-729)	-	0.4	1	0.4
Endocrine System	(379,739-759)	-	0.2	-	0.4
Lymphoma	(9590-9714)*	1	1.1	1	1
Multiple Myeloma	(9730,9732)*	4	0.3	1	0.3
Leukemia	(9800-9941)*	1	0.7	-	0.4
All Cancers	(000-809)	29	33.2	33	28.8

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

PASQUOTANK COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	-	2	-	1.1
Esophagus	(150-159)	-	1.2	-	0.4
Stomach	(160-169)	3	1.2	1	1
Colon & Rectum	(180-209,260)	12	7.9	15	8.7
Liver & Bile Ducts	(220-221)	1	0.4	-	0.2
Gallbladder & Biliary Tract	(239-249)	1	0.3	-	0.3
Pancreas	(250-259)	-	1.2	-	1.4
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.4	-	0.6
Larynx	(320-329)	-	1.3	-	0.3
Bronchus & Lung	(340-349)	6	13.7	6	7.6
Respiratory Organs	(300-319,339,381-399)	-	0.3	-	0.2
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.4	-	0.4
Melanoma of Skin	(8720-8790)*	-	1.9	-	1.7
Breast	(500-509)	1	0.1	18	22.6
Cervix Uteri	(530-539)	-	-	-	1.9
Uterus (Corpus,NOS)	(540-559)	-	-	2	3.6
Ovary	(569)	-	-	1	2.2
Prostate	(619)	28	21.2	-	-
Testis	(620-629)	-	0.6	-	-
Bladder	(670-679)	4	3.6	1	1.4
Kidney & Renal Pelvis	(640-659)	1	1.9	1	1.2
Brain & CNS	(700-729)	-	0.9	1	0.9
Endocrine System	(379,739-759)	1	0.4	1	1
Lymphoma	(9590-9714)*	3	2.5	1	2.4
Multiple Myeloma	(9730,9732)*	-	0.7	-	0.8
Leukemia	(9800-9941)*	-	1.5	-	1.1
All Cancers	(000-809)	62	68.5	49	66.6

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

PENDER COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	7	2.4	2	1.1
Esophagus	(150-159)	5	1.4	-	0.5
Stomach	(160-169)	-	1.3	1	0.9
Colon & Rectum	(180-209,260)	5	8.9	6	8.7
Liver & Bile Ducts	(220-221)	-	0.4	-	0.2
Gallbladder & Biliary Tract	(239-249)	-	0.3	-	0.3
Pancreas	(250-259)	1	1.4	-	1.4
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.4	2	0.7
Larynx	(320-329)	3	1.6	-	0.3
Bronchus & Lung	(340-349)	14	16.1	5	8.1
Respiratory Organs	(300-319,339,381-399)	1	0.4	-	0.2
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.4	-	0.4
Melanoma of Skin	(8720-8790)*	1	2.3	3	1.8
Breast	(500-509)	-	0.1	16	24.3
Cervix Uteri	(530-539)	-	-	1	1.9
Uterus (Corpus,NOS)	(540-559)	-	-	5	3.9
Ovary	(569)	-	-	1	2.3
Prostate	(619)	18	24.5	-	-
Testis	(620-629)	1	0.6	-	-
Bladder	(670-679)	4	4.1	-	1.4
Kidney & Renal Pelvis	(640-659)	3	2.2	2	1.3
Brain & CNS	(700-729)	5	1	2	0.9
Endocrine System	(379,739-759)	-	0.4	1	1.1
Lymphoma	(9590-9714)*	3	2.8	3	2.5
Multiple Myeloma	(9730,9732)*	1	0.8	1	0.8
Leukemia	(9800-9941)*	-	1.6	2	1.1
All Cancers	(000-809)	75	78.6	56	69.8

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

PERQUIMANS COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	-	0.9	-	0.4
Esophagus	(150-159)	-	0.5	-	0.2
Stomach	(160-169)	1	0.6	-	0.4
Colon & Rectum	(180-209,260)	3	3.7	6	3.5
Liver & Bile Ducts	(220-221)	-	0.2	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.1	-	0.1
Pancreas	(250-259)	2	0.6	-	0.6
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.1	-	0.2
Larynx	(320-329)	-	0.6	-	0.1
Bronchus & Lung	(340-349)	2	6.4	-	3.1
Respiratory Organs	(300-319,339,381-399)	-	0.2	-	0.1
Bones & Joints	(400-419)	1	-	-	-
Soft Tissue	(380,470-479,490-499)	-	0.1	-	0.1
Melanoma of Skin	(8720-8790)*	-	0.8	1	0.6
Breast	(500-509)	-	0.1	6	8.9
Cervix Uteri	(530-539)	-	-	-	0.7
Uterus (Corpus,NOS)	(540-559)	-	-	1	1.5
Ovary	(569)	-	-	-	0.9
Prostate	(619)	12	10.1	-	-
Testis	(620-629)	-	0.2	-	-
Bladder	(670-679)	-	1.7	-	0.5
Kidney & Renal Pelvis	(640-659)	-	0.8	-	0.5
Brain & CNS	(700-729)	-	0.4	-	0.3
Endocrine System	(379,739-759)	-	0.1	-	0.4
Lymphoma	(9590-9714)*	2	1.1	1	0.9
Multiple Myeloma	(9730,9732)*	-	0.3	-	0.3
Leukemia	(9800-9941)*	-	0.6	1	0.4
All Cancers	(000-809)	27	31.4	16	26.2

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

PERSON COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	1	2.1	1	1.1
Esophagus	(150-159)	-	1.2	1	0.4
Stomach	(160-169)	2	1.2	1	1
Colon & Rectum	(180-209,260)	8	8	14	8.7
Liver & Bile Ducts	(220-221)	2	0.4	-	0.2
Gallbladder & Biliary Tract	(239-249)	-	0.3	-	0.3
Pancreas	(250-259)	2	1.2	1	1.4
Digestive Organs	(170-179,210-218,268-269,480-489)	1	0.4	1	0.6
Larynx	(320-329)	2	1.4	-	0.3
Bronchus & Lung	(340-349)	19	13.8	3	7.7
Respiratory Organs	(300-319,339,381-399)	1	0.3	-	0.2
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.4	-	0.3
Melanoma of Skin	(8720-8790)*	2	2	3	1.7
Breast	(500-509)	-	0.1	25	23.1
Cervix Uteri	(530-539)	-	-	-	1.9
Uterus (Corpus,NOS)	(540-559)	-	-	-	3.7
Ovary	(569)	-	-	2	2.2
Prostate	(619)	22	21	-	-
Testis	(620-629)	-	0.6	-	-
Bladder	(670-679)	5	3.6	1	1.4
Kidney & Renal Pelvis	(640-659)	1	1.9	3	1.2
Brain & CNS	(700-729)	1	0.9	3	0.9
Endocrine System	(379,739-759)	-	0.4	-	1
Lymphoma	(9590-9714)*	3	2.6	2	2.4
Multiple Myeloma	(9730,9732)*	-	0.7	1	0.8
Leukemia	(9800-9941)*	-	1.5	5	1.1
All Cancers	(000-809)	73	68.9	71	67.2

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

PITT COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	14	5.8	2	3.1
Esophagus	(150-159)	6	3.3	1	1.2
Stomach	(160-169)	4	3.1	4	2.6
Colon & Rectum	(180-209,260)	17	20.4	31	23.1
Liver & Bile Ducts	(220-221)	1	1	1	0.6
Gallbladder & Biliary Tract	(239-249)	1	0.8	3	0.8
Pancreas	(250-259)	2	3.2	7	3.8
Digestive Organs	(170-179,210-218,268-269,480-489)	2	1	1	1.8
Larynx	(320-329)	-	3.6	1	0.9
Bronchus & Lung	(340-349)	38	35.8	12	20.8
Respiratory Organs	(300-319,339,381-399)	-	0.9	1	0.6
Bones & Joints	(400-419)	-	0.4	2	0.3
Soft Tissue	(380,470-479,490-499)	1	1.1	-	1.1
Melanoma of Skin	(8720-8790)*	13	5.7	7	5.4
Breast	(500-509)	-	0.3	53	65.3
Cervix Uteri	(530-539)	-	-	3	5.9
Uterus (Corpus,NOS)	(540-559)	-	-	11	10.2
Ovary	(569)	-	-	3	6.4
Prostate	(619)	36	52.7	-	-
Testis	(620-629)	5	2.4	-	-
Bladder	(670-679)	8	9.2	3	3.7
Kidney & Renal Pelvis	(640-659)	6	5	7	3.4
Brain & CNS	(700-729)	2	2.7	4	2.8
Endocrine System	(379,739-759)	1	1.2	4	3.3
Lymphoma	(9590-9714)*	6	7.4	5	7.1
Multiple Myeloma	(9730,9732)*	1	1.9	1	2
Leukemia	(9800-9941)*	6	4.2	4	3.2
All Cancers	(000-809)	182	180.6	181	189.2

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

POLK COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	1	1.4	1	0.8
Esophagus	(150-159)	1	0.9	-	0.3
Stomach	(160-169)	-	1	-	0.8
Colon & Rectum	(180-209,260)	4	6.3	7	6.6
Liver & Bile Ducts	(220-221)	1	0.3	-	0.2
Gallbladder & Biliary Tract	(239-249)	-	0.2	-	0.2
Pancreas	(250-259)	1	1	-	1.1
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.2	-	0.4
Larynx	(320-329)	-	1	-	0.2
Bronchus & Lung	(340-349)	2	10.6	1	5.5
Respiratory Organs	(300-319,339,381-399)	-	0.3	-	0.1
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.2	2	0.2
Melanoma of Skin	(8720-8790)*	1	1.3	1	1.1
Breast	(500-509)	-	0.1	15	15.3
Cervix Uteri	(530-539)	-	-	1	1.1
Uterus (Corpus,NOS)	(540-559)	-	-	3	2.5
Ovary	(569)	-	-	3	1.5
Prostate	(619)	8	17.4	-	-
Testis	(620-629)	-	0.3	-	-
Bladder	(670-679)	2	2.9	2	1.1
Kidney & Renal Pelvis	(640-659)	-	1.4	1	0.9
Brain & CNS	(700-729)	-	0.6	-	0.6
Endocrine System	(379,739-759)	-	0.2	1	0.6
Lymphoma	(9590-9714)*	1	1.7	2	1.7
Multiple Myeloma	(9730,9732)*	-	0.6	-	0.6
Leukemia	(9800-9941)*	1	1	-	0.7
All Cancers	(000-809)	25	53.1	40	46.7

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

RANDOLPH COUNTY 1993

		Male		*Female*	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	12	7.5	4	3.6
Esophagus	(150-159)	3	4.3	-	1.4
Stomach	(160-169)	3	4.2	6	3
Colon & Rectum	(180-209,260)	20	27.3	20	27.3
Liver & Bile Ducts	(220-221)	-	1.3	2	0.7
Gallbladder & Biliary Tract	(239-249)	2	1	1	1
Pancreas	(250-259)	4	4.2	5	4.5
Digestive Organs	(170-179,210-218,268-269,480-489)	1	1.3	2	2.1
Larynx	(320-329)	7	4.7	1	1.1
Bronchus & Lung	(340-349)	41	47.6	20	24.9
Respiratory Organs	(300-319,339,381-399)	-	1.2	1	0.6
Bones & Joints	(400-419)	-	0.4	-	0.3
Soft Tissue	(380,470-479,490-499)	2	1.3	2	1.2
Melanoma of Skin	(8720-8790)*	7	7.1	5	5.8
Breast	(500-509)	1	0.5	85	76.9
Cervix Uteri	(530-539)	-	-	8	6.3
Uterus (Corpus,NOS)	(540-559)	-	-	11	12.1
Ovary	(569)	-	-	6	7.4
Prostate	(619)	71	71	-	-
Testis	(620-629)	3	2.3	-	-
Bladder	(670-679)	8	12.3	4	4.3
Kidney & Renal Pelvis	(640-659)	7	6.6	9	3.9
Brain & CNS	(700-729)	8	3.3	4	3
Endocrine System	(379,739-759)	-	1.4	2	3.5
Lymphoma	(9590-9714)*	8	9	9	7.9
Multiple Myeloma	(9730,9732)*	-	2.5	1	2.4
Leukemia	(9800-9941)*	3	5.1	6	3.5
All Cancers	(000-809)	221	237.1	224	220

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

RICHMOND COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	2	3	1	1.6
Esophagus	(150-159)	3	1.7	1	0.6
Stomach	(160-169)	-	1.7	2	1.3
Colon & Rectum	(180-209,260)	10	11.4	10	12.4
Liver & Bile Ducts	(220-221)	-	0.5	-	0.3
Gallbladder & Biliary Tract	(239-249)	1	0.4	1	0.4
Pancreas	(250-259)	3	1.8	-	2.1
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.5	2	0.9
Larynx	(320-329)	5	1.9	-	0.5
Bronchus & Lung	(340-349)	18	20.1	12	11.2
Respiratory Organs	(300-319,339,381-399)	-	0.5	1	0.3
Bones & Joints	(400-419)	-	0.2	-	0.1
Soft Tissue	(380,470-479,490-499)	1	0.5	1	0.5
Melanoma of Skin	(8720-8790)*	6	2.8	3	2.5
Breast	(500-509)	-	0.2	31	33.1
Cervix Uteri	(530-539)	-	-	7	2.6
Uterus (Corpus,NOS)	(540-559)	-	-	4	5.3
Ovary	(569)	-	-	5	3.2
Prostate	(619)	28	30.7	-	-
Testis	(620-629)	1	0.8	-	-
Bladder	(670-679)	5	5.2	-	2
Kidney & Renal Pelvis	(640-659)	3	2.7	2	1.8
Brain & CNS	(700-729)	2	1.3	-	1.3
Endocrine System	(379,739-759)	1	0.5	-	1.4
Lymphoma	(9590-9714)*	4	3.6	1	3.5
Multiple Myeloma	(9730,9732)*	-	1	-	1.1
Leukemia	(9800-9941)*	3	2.1	-	1.5
All Cancers	(000-809)	99	99.1	89	96.5

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

ROBESON COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	6	5.9	1	3.2
Esophagus	(150-159)	4	3.4	-	1.2
Stomach	(160-169)	5	3.2	5	2.6
Colon & Rectum	(180-209,260)	21	21.1	24	24
Liver & Bile Ducts	(220-221)	2	1	1	0.6
Gallbladder & Biliary Tract	(239-249)	1	0.8	1	0.8
Pancreas	(250-259)	1	3.3	6	4
Digestive Organs	(170-179,210-218,268-269,480-489)	-	1	2	1.9
Larynx	(320-329)	4	3.7	-	0.9
Bronchus & Lung	(340-349)	38	37.2	23	21.9
Respiratory Organs	(300-319,339,381-399)	2	0.9	-	0.6
Bones & Joints	(400-419)	-	0.4	-	0.3
Soft Tissue	(380,470-479,490-499)	-	1.1	2	1.1
Melanoma of Skin	(8720-8790)*	1	5.7	1	5.3
Breast	(500-509)	-	0.4	50	67.7
Cervix Uteri	(530-539)	-	-	8	5.7
Uterus (Corpus,NOS)	(540-559)	-	-	9	10.6
Ovary	(569)	-	-	5	6.5
Prostate	(619)	49	55.1	-	-
Testis	(620-629)	1	2.1	-	-
Bladder	(670-679)	3	9.5	3	3.8
Kidney & Renal Pelvis	(640-659)	1	5.2	6	3.5
Brain & CNS	(700-729)	3	2.7	3	2.8
Endocrine System	(379,739-759)	-	1.2	1	3.2
Lymphoma	(9590-9714)*	4	7.3	5	7.1
Multiple Myeloma	(9730,9732)*	3	1.9	-	2.1
Leukemia	(9800-9941)*	6	4.3	4	3.2
All Cancers	(000-809)	162	186	167	194.6

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

ROCKINGHAM COUNTY 1993

Site	*ICD-O2*	*Male*		*Female*	
		Observed	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	9	6.1	5	3.2
Esophagus	(150-159)	3	3.5	1	1.3
Stomach	(160-169)	1	3.5	2	2.7
Colon & Rectum	(180-209,260)	32	22.9	25	24.9
Liver & Bile Ducts	(220-221)	1	1.1	-	0.6
Gallbladder & Biliary Tract	(239-249)	-	0.9	-	0.9
Pancreas	(250-259)	2	3.6	11	4.1
Digestive Organs	(170-179,210-218,268-269,480-489)	-	1	4	1.8
Larynx	(320-329)	7	3.9	1	0.9
Bronchus & Lung	(340-349)	53	39.9	23	22.1
Respiratory Organs	(300-319,339,381-399)	1	1	-	0.6
Bones & Joints	(400-419)	-	0.3	-	0.3
Soft Tissue	(380,470-479,490-499)	-	1.1	-	1
Melanoma of Skin	(8720-8790)*	8	5.7	3	4.9
Breast	(500-509)	-	0.4	62	66.4
Cervix Uteri	(530-539)	-	-	6	5.3
Uterus (Corpus,NOS)	(540-559)	-	-	14	10.6
Ovary	(569)	-	-	6	6.4
Prostate	(619)	40	60.7	-	-
Testis	(620-629)	1	1.7	-	-
Bladder	(670-679)	9	10.4	4	4
Kidney & Renal Pelvis	(640-659)	3	5.4	3	3.5
Brain & CNS	(700-729)	5	2.6	1	2.6
Endocrine System	(379,739-759)	2	1.1	1	2.9
Lymphoma	(9590-9714)*	7	7.3	7	6.9
Multiple Myeloma	(9730,9732)*	1	2.1	5	2.2
Leukemia	(9800-9941)*	2	4.2	1	3
All Cancers	(000-809)	190	198.5	196	193.2

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

ROWAN COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	2	8.2	4	4.2
Esophagus	(150-159)	1	4.8	-	1.6
Stomach	(160-169)	2	4.9	4	3.7
Colon & Rectum	(180-209,260)	20	31.9	37	32.9
Liver & Bile Ducts	(220-221)	1	1.5	-	0.8
Gallbladder & Biliary Tract	(239-249)	-	1.2	1	1.2
Pancreas	(250-259)	3	4.9	5	5.5
Digestive Organs	(170-179,210-218,268-269,480-489)	2	1.4	2	2.4
Larynx	(320-329)	8	5.3	1	1.2
Bronchus & Lung	(340-349)	22	54.9	13	28.9
Respiratory Organs	(300-319,339,381-399)	2	1.4	-	0.7
Bones & Joints	(400-419)	2	0.5	-	0.3
Soft Tissue	(380,470-479,490-499)	2	1.4	1	1.3
Melanoma of Skin	(8720-8790)*	4	7.8	1	6.3
Breast	(500-509)	-	0.5	66	85.4
Cervix Uteri	(530-539)	-	-	3	6.8
Uterus (Corpus,NOS)	(540-559)	-	-	6	13.7
Ovary	(569)	-	-	9	8.3
Prostate	(619)	23	85	-	-
Testis	(620-629)	3	2.3	-	-
Bladder	(670-679)	12	14.6	6	5.2
Kidney & Renal Pelvis	(640-659)	3	7.5	2	4.6
Brain & CNS	(700-729)	1	3.5	2	3.4
Endocrine System	(379,739-759)	1	1.4	5	3.7
Lymphoma	(9590-9714)*	10	10	6	9.1
Multiple Myeloma	(9730,9732)*	-	2.9	2	2.9
Leukemia	(9800-9941)*	8	5.8	1	4
All Cancers	(000-809)	142	274.7	193	251.3

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

RUTHERFORD COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	-	4.2	1	2.2
Esophagus	(150-159)	-	2.4	1	0.9
Stomach	(160-169)	1	2.5	1	1.9
Colon & Rectum	(180-209,260)	14	16.5	12	17.4
Liver & Bile Ducts	(220-221)	1	0.7	-	0.4
Gallbladder & Biliary Tract	(239-249)	-	0.6	1	0.6
Pancreas	(250-259)	5	2.5	4	2.9
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.7	1	1.2
Larynx	(320-329)	-	2.7	1	0.6
Bronchus & Lung	(340-349)	26	28.3	14	15.2
Respiratory Organs	(300-319,339,381-399)	-	0.7	-	0.4
Bones & Joints	(400-419)	1	0.2	-	0.2
Soft Tissue	(380,470-479,490-499)	3	0.7	-	0.7
Melanoma of Skin	(8720-8790)*	4	3.9	7	3.3
Breast	(500-509)	-	0.3	30	44.8
Cervix Uteri	(530-539)	-	-	3	3.5
Uterus (Corpus,NOS)	(540-559)	-	-	5	7.2
Ovary	(569)	-	-	8	4.4
Prostate	(619)	38	43.8	-	-
Testis	(620-629)	2	1.1	-	-
Bladder	(670-679)	6	7.5	3	2.8
Kidney & Renal Pelvis	(640-659)	2	3.8	3	2.4
Brain & CNS	(700-729)	-	1.8	1	1.7
Endocrine System	(379,739-759)	1	0.7	1	1.9
Lymphoma	(9590-9714)*	4	5.1	3	4.8
Multiple Myeloma	(9730,9732)*	-	1.5	3	1.5
Leukemia	(9800-9941)*	3	3	-	2.1
All Cancers	(000-809)	118	140.9	113	131.9

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

SAMPSON COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	6	3.4	2	1.8
Esophagus	(150-159)	2	2	-	0.7
Stomach	(160-169)	1	2	1	1.5
Colon & Rectum	(180-209,260)	16	13	20	13.9
Liver & Bile Ducts	(220-221)	1	0.6	1	0.4
Gallbladder & Biliary Tract	(239-249)	-	0.5	-	0.5
Pancreas	(250-259)	3	2	-	2.3
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.6	2	1
Larynx	(320-329)	2	2.2	-	0.5
Bronchus & Lung	(340-349)	35	22.6	9	12.4
Respiratory Organs	(300-319,339,381-399)	1	0.6	-	0.3
Bones & Joints	(400-419)	-	0.2	1	0.1
Soft Tissue	(380,470-479,490-499)	1	0.6	1	0.6
Melanoma of Skin	(8720-8790)*	3	3.2	2	2.7
Breast	(500-509)	1	0.2	26	36.9
Cervix Uteri	(530-539)	-	-	9	2.9
Uterus (Corpus,NOS)	(540-559)	-	-	8	5.9
Ovary	(569)	-	-	3	3.6
Prostate	(619)	25	34.5	-	-
Testis	(620-629)	-	0.9	-	-
Bladder	(670-679)	7	5.9	4	2.2
Kidney & Renal Pelvis	(640-659)	3	3.1	1	2
Brain & CNS	(700-729)	1	1.5	1	1.4
Endocrine System	(379,739-759)	1	0.6	1	1.6
Lymphoma	(9590-9714)*	7	4.1	2	3.9
Multiple Myeloma	(9730,9732)*	3	1.2	3	1.2
Leukemia	(9800-9941)*	3	2.4	4	1.7
All Cancers	(000-809)	126	112.4	109	107.6

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

SCOTLAND COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	3	1.9	1	1.1
Esophagus	(150-159)	1	1.1	-	0.4
Stomach	(160-169)	1	1	2	0.9
Colon & Rectum	(180-209,260)	4	6.8	5	8
Liver & Bile Ducts	(220-221)	-	0.3	-	0.2
Gallbladder & Biliary Tract	(239-249)	1	0.3	-	0.3
Pancreas	(250-259)	2	1.1	-	1.3
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.3	-	0.6
Larynx	(320-329)	1	1.2	-	0.3
Bronchus & Lung	(340-349)	18	11.9	8	7.3
Respiratory Organs	(300-319,339,381-399)	-	0.3	-	0.2
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.3	-	0.4
Melanoma of Skin	(8720-8790)*	1	1.8	1	1.8
Breast	(500-509)	-	0.1	19	22.8
Cervix Uteri	(530-539)	-	-	2	1.9
Uterus (Corpus,NOS)	(540-559)	-	-	4	3.6
Ovary	(569)	-	-	-	2.2
Prostate	(619)	12	17.6	-	-
Testis	(620-629)	2	0.6	-	-
Bladder	(670-679)	1	3.1	-	1.3
Kidney & Renal Pelvis	(640-659)	2	1.7	3	1.2
Brain & CNS	(700-729)	-	0.9	1	0.9
Endocrine System	(379,739-759)	-	0.4	-	1.1
Lymphoma	(9590-9714)*	4	2.3	1	2.4
Multiple Myeloma	(9730,9732)*	1	0.6	-	0.7
Leukemia	(9800-9941)*	2	1.4	-	1.1
All Cancers	(000-809)	57	59.5	49	65.5

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

STANLY COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	3	3.7	2	1.9
Esophagus	(150-159)	4	2.1	-	0.8
Stomach	(160-169)	2	2.2	2	1.6
Colon & Rectum	(180-209,260)	12	14.1	16	14.9
Liver & Bile Ducts	(220-221)	-	0.7	1	0.4
Gallbladder & Biliary Tract	(239-249)	-	0.5	-	0.5
Pancreas	(250-259)	-	2.2	2	2.5
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.6	-	1.1
Larynx	(320-329)	1	2.4	1	0.6
Bronchus & Lung	(340-349)	28	24.5	18	13.3
Respiratory Organs	(300-319,339,381-399)	1	0.6	1	0.3
Bones & Joints	(400-419)	-	0.2	-	0.2
Soft Tissue	(380,470-479,490-499)	-	0.6	1	0.6
Melanoma of Skin	(8720-8790)*	3	3.5	-	2.9
Breast	(500-509)	-	0.2	35	39.3
Cervix Uteri	(530-539)	-	-	2	3.1
Uterus (Corpus,NOS)	(540-559)	-	-	1	6.3
Ovary	(569)	-	-	8	3.8
Prostate	(619)	30	37.5	-	-
Testis	(620-629)	-	1	-	-
Bladder	(670-679)	10	6.4	4	2.4
Kidney & Renal Pelvis	(640-659)	3	3.3	1	2.1
Brain & CNS	(700-729)	3	1.6	2	1.6
Endocrine System	(379,739-759)	-	0.6	5	1.7
Lymphoma	(9590-9714)*	4	4.5	2	4.1
Multiple Myeloma	(9730,9732)*	2	1.3	-	1.3
Leukemia	(9800-9941)*	1	2.6	6	1.8
All Cancers	(000-809)	112	121.8	118	115.1

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

STOKES COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	2	2.6	1	1.2
Esophagus	(150-159)	2	1.5	-	0.5
Stomach	(160-169)	-	1.4	2	1
Colon & Rectum	(180-209,260)	7	9.2	6	9.3
Liver & Bile Ducts	(220-221)	-	0.4	-	0.2
Gallbladder & Biliary Tract	(239-249)	-	0.3	-	0.3
Pancreas	(250-259)	2	1.4	3	1.5
Digestive Organs	(170-179,210-218,268-269,480-489)	2	0.4	3	0.7
Larynx	(320-329)	-	1.6	-	0.4
Bronchus & Lung	(340-349)	21	16	8	8.4
Respiratory Organs	(300-319,339,381-399)	-	0.4	-	0.2
Bones & Joints	(400-419)	-	0.2	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.5	1	0.4
Melanoma of Skin	(8720-8790)*	3	2.5	1	2
Breast	(500-509)	-	0.2	29	26.5
Cervix Uteri	(530-539)	-	-	3	2.2
Uterus (Corpus,NOS)	(540-559)	-	-	3	4.1
Ovary	(569)	-	-	5	2.5
Prostate	(619)	25	23.5	-	-
Testis	(620-629)	-	0.8	-	-
Bladder	(670-679)	5	4.1	-	1.5
Kidney & Renal Pelvis	(640-659)	3	2.2	1	1.3
Brain & CNS	(700-729)	2	1.1	-	1
Endocrine System	(379,739-759)	-	0.5	2	1.2
Lymphoma	(9590-9714)*	5	3.1	1	2.7
Multiple Myeloma	(9730,9732)*	1	0.8	3	0.8
Leukemia	(9800-9941)*	4	1.7	1	1.2
All Cancers	(000-809)	88	79.7	78	75.1

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

SURRY COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	7	4.6	4	2.4
Esophagus	(150-159)	3	2.7	3	1
Stomach	(160-169)	2	2.6	1	2.1
Colon & Rectum	(180-209,260)	16	17.3	25	19.2
Liver & Bile Ducts	(220-221)	2	0.8	2	0.5
Gallbladder & Biliary Tract	(239-249)	-	0.6	1	0.7
Pancreas	(250-259)	4	2.7	5	3.2
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.8	-	1.4
Larynx	(320-329)	2	3	2	0.7
Bronchus & Lung	(340-349)	35	30.2	11	16.9
Respiratory Organs	(300-319,339,381-399)	-	0.7	1	0.4
Bones & Joints	(400-419)	-	0.2	-	0.2
Soft Tissue	(380,470-479,490-499)	-	0.8	2	0.8
Melanoma of Skin	(8720-8790)*	7	4.3	5	3.7
Breast	(500-509)	1	0.3	48	50.3
Cervix Uteri	(530-539)	-	-	5	3.9
Uterus (Corpus,NOS)	(540-559)	-	-	7	8.1
Ovary	(569)	-	-	6	4.9
Prostate	(619)	39	45.8	-	-
Testis	(620-629)	2	1.3	-	-
Bladder	(670-679)	11	7.8	3	3
Kidney & Renal Pelvis	(640-659)	2	4.1	5	2.7
Brain & CNS	(700-729)	1	1.9	5	1.9
Endocrine System	(379,739-759)	-	0.8	4	2.1
Lymphoma	(9590-9714)*	2	5.4	5	5.3
Multiple Myeloma	(9730,9732)*	4	1.6	-	1.7
Leukemia	(9800-9941)*	7	3.1	2	2.3
All Cancers	(000-809)	153	149.5	155	147.1

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

SWAIN COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	-	0.9	1	0.4
Esophagus	(150-159)	-	0.5	-	0.2
Stomach	(160-169)	-	0.5	-	0.4
Colon & Rectum	(180-209,260)	3	3.4	-	3.3
Liver & Bile Ducts	(220-221)	1	0.2	1	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.1	-	0.1
Pancreas	(250-259)	1	0.5	1	0.5
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.1	1	0.2
Larynx	(320-329)	-	0.6	-	0.1
Bronchus & Lung	(340-349)	7	5.9	5	2.9
Respiratory Organs	(300-319,339,381-399)	-	0.1	-	0.1
Bones & Joints	(400-419)	-	-	-	-
Soft Tissue	(380,470-479,490-499)	2	0.1	-	0.1
Melanoma of Skin	(8720-8790)*	-	0.8	1	0.6
Breast	(500-509)	-	0.1	11	8.6
Cervix Uteri	(530-539)	-	-	1	0.7
Uterus (Corpus,NOS)	(540-559)	-	-	2	1.4
Ovary	(569)	-	-	1	0.8
Prostate	(619)	9	9.1	-	-
Testis	(620-629)	-	0.2	-	-
Bladder	(670-679)	5	1.6	1	0.5
Kidney & Renal Pelvis	(640-659)	-	0.8	-	0.5
Brain & CNS	(700-729)	-	0.4	2	0.3
Endocrine System	(379,739-759)	-	0.1	1	0.4
Lymphoma	(9590-9714)*	1	1	2	0.9
Multiple Myeloma	(9730,9732)*	1	0.3	1	0.3
Leukemia	(9800-9941)*	-	0.6	-	0.4
All Cancers	(000-809)	34	29.1	36	25.1

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

TRANSYLVANIA COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	2	2.3	1	1.1
Esophagus	(150-159)	1	1.4	3	0.5
Stomach	(160-169)	-	1.5	-	1
Colon & Rectum	(180-209,260)	12	9.6	6	8.9
Liver & Bile Ducts	(220-221)	-	0.4	-	0.2
Gallbladder & Biliary Tract	(239-249)	-	0.4	-	0.3
Pancreas	(250-259)	1	1.5	-	1.5
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.4	-	0.6
Larynx	(320-329)	1	1.6	-	0.3
Bronchus & Lung	(340-349)	10	16.6	9	8.1
Respiratory Organs	(300-319,339,381-399)	-	0.4	-	0.2
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	1	0.4	-	0.3
Melanoma of Skin	(8720-8790)*	2	2.1	-	1.6
Breast	(500-509)	-	0.2	30	22.9
Cervix Uteri	(530-539)	-	-	3	1.7
Uterus (Corpus,NOS)	(540-559)	-	-	4	3.8
Ovary	(569)	-	-	2	2.2
Prostate	(619)	32	26.6	-	-
Testis	(620-629)	2	0.5	-	-
Bladder	(670-679)	9	4.4	2	1.4
Kidney & Renal Pelvis	(640-659)	1	2.2	3	1.2
Brain & CNS	(700-729)	-	0.9	-	0.9
Endocrine System	(379,739-759)	-	0.4	2	0.9
Lymphoma	(9590-9714)*	1	2.7	3	2.4
Multiple Myeloma	(9730,9732)*	2	0.9	-	0.8
Leukemia	(9800-9941)*	1	1.6	-	1
All Cancers	(000-809)	81	82.3	73	67.4

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

TYRRELL COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	1	0.3	-	0.1
Esophagus	(150-159)	-	0.2	-	0.1
Stomach	(160-169)	-	0.2	-	0.1
Colon & Rectum	(180-209,260)	2	1.2	-	1.2
Liver & Bile Ducts	(220-221)	-	0.1	-	-
Gallbladder & Biliary Tract	(239-249)	-	-	-	-
Pancreas	(250-259)	-	0.2	-	0.2
Digestive Organs	(170-179,210-218,268-269,480-489)	-	-	-	0.1
Larynx	(320-329)	-	0.2	-	-
Bronchus & Lung	(340-349)	2	2.1	-	1
Respiratory Organs	(300-319,339,381-399)	-	0.1	-	-
Bones & Joints	(400-419)	-	-	-	-
Soft Tissue	(380,470-479,490-499)	-	0.1	-	-
Melanoma of Skin	(8720-8790)*	-	0.3	-	0.2
Breast	(500-509)	-	-	-	3
Cervix Uteri	(530-539)	-	-	-	0.2
Uterus (Corpus,NOS)	(540-559)	-	-	-	0.5
Ovary	(569)	-	-	-	0.3
Prostate	(619)	1	3.3	-	-
Testis	(620-629)	-	0.1	-	-
Bladder	(670-679)	-	0.6	-	0.2
Kidney & Renal Pelvis	(640-659)	-	0.3	-	0.2
Brain & CNS	(700-729)	-	0.1	-	0.1
Endocrine System	(379,739-759)	-	-	-	0.1
Lymphoma	(9590-9714)*	-	0.4	1	0.3
Multiple Myeloma	(9730,9732)*	-	0.1	-	0.1
Leukemia	(9800-9941)*	-	0.2	-	0.1
All Cancers	(000-809)	7	10.5	1	8.6

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

UNION COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	3	5.4	-	2.4
Esophagus	(150-159)	-	3	-	0.9
Stomach	(160-169)	3	2.8	3	2
Colon & Rectum	(180-209,260)	22	18.5	22	18.3
Liver & Bile Ducts	(220-221)	2	0.9	-	0.5
Gallbladder & Biliary Tract	(239-249)	1	0.7	1	0.7
Pancreas	(250-259)	3	2.9	5	3
Digestive Organs	(170-179,210-218,268-269,480-489)	1	0.9	-	1.5
Larynx	(320-329)	4	3.3	-	0.7
Bronchus & Lung	(340-349)	25	32.6	21	17.1
Respiratory Organs	(300-319,339,381-399)	-	0.8	-	0.5
Bones & Joints	(400-419)	3	0.3	-	0.2
Soft Tissue	(380,470-479,490-499)	1	1	-	0.9
Melanoma of Skin	(8720-8790)*	5	5.2	2	4.3
Breast	(500-509)	1	0.3	60	54.9
Cervix Uteri	(530-539)	-	-	3	4.7
Uterus (Corpus,NOS)	(540-559)	-	-	12	8.4
Ovary	(569)	-	-	7	5.2
Prostate	(619)	39	47	-	-
Testis	(620-629)	2	1.9	-	-
Bladder	(670-679)	9	8.3	2	2.9
Kidney & Renal Pelvis	(640-659)	2	4.6	1	2.7
Brain & CNS	(700-729)	3	2.4	-	2.2
Endocrine System	(379,739-759)	3	1.1	2	2.6
Lymphoma	(9590-9714)*	5	6.5	7	5.5
Multiple Myeloma	(9730,9732)*	2	1.7	1	1.6
Leukemia	(9800-9941)*	1	3.7	-	2.5
All Cancers	(000-809)	144	162.6	155	154

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

VANCE COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	3	2.4	-	1.3
Esophagus	(150-159)	1	1.4	-	0.5
Stomach	(160-169)	4	1.4	-	1.1
Colon & Rectum	(180-209,260)	7	9	5	10.3
Liver & Bile Ducts	(220-221)	-	0.4	-	0.3
Gallbladder & Biliary Tract	(239-249)	-	0.3	1	0.4
Pancreas	(250-259)	2	1.4	2	1.7
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.4	4	0.8
Larynx	(320-329)	2	1.5	-	0.4
Bronchus & Lung	(340-349)	19	15.7	10	9.2
Respiratory Organs	(300-319,339,381-399)	1	0.4	-	0.2
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	1	0.4	-	0.4
Melanoma of Skin	(8720-8790)*	1	2.3	2	2.1
Breast	(500-509)	-	0.2	19	27.9
Cervix Uteri	(530-539)	-	-	4	2.3
Uterus (Corpus,NOS)	(540-559)	-	-	5	4.4
Ovary	(569)	-	-	1	2.7
Prostate	(619)	34	23.9	-	-
Testis	(620-629)	1	0.8	-	-
Bladder	(670-679)	3	4.1	2	1.6
Kidney & Renal Pelvis	(640-659)	4	2.2	1	1.5
Brain & CNS	(700-729)	1	1.1	1	1.1
Endocrine System	(379,739-759)	1	0.4	2	1.3
Lymphoma	(9590-9714)*	3	3	3	2.9
Multiple Myeloma	(9730,9732)*	-	0.8	2	0.9
Leukemia	(9800-9941)*	5	1.7	2	1.3
All Cancers	(000-809)	97	78.5	70	80.9

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

WAKE COUNTY 1993

Site	*ICD-O2*	*Male*		*Female*	
		Observed	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	28	24	8	11.2
Esophagus	(150-159)	11	13.1	5	4.3
Stomach	(160-169)	13	11.9	9	9
Colon & Rectum	(180-209,260)	72	79.1	71	82.4
Liver & Bile Ducts	(220-221)	2	3.9	2	2.3
Gallbladder & Biliary Tract	(239-249)	2	2.9	4	3
Pancreas	(250-259)	11	12.1	17	13.2
Digestive Organs	(170-179,210-218,268-269,480-489)	3	4.4	5	7
Larynx	(320-329)	16	14.5	4	3.3
Bronchus & Lung	(340-349)	134	138.1	97	75.7
Respiratory Organs	(300-319,339,381-399)	3	3.7	5	2.1
Bones & Joints	(400-419)	1	1.8	1	1.2
Soft Tissue	(380,470-479,490-499)	9	4.7	4	4.1
Melanoma of Skin	(8720-8790)*	22	24.1	17	21.7
Breast	(500-509)	1	1.4	308	257.3
Cervix Uteri	(530-539)	-	-	19	24.4
Uterus (Corpus,NOS)	(540-559)	-	-	53	38.2
Ovary	(569)	-	-	29	24.5
Prostate	(619)	195	193.6	-	-
Testis	(620-629)	14	11.4	-	-
Bladder	(670-679)	29	34.9	6	13
Kidney & Renal Pelvis	(640-659)	21	20.3	12	12.4
Brain & CNS	(700-729)	15	11.6	14	10.9
Endocrine System	(379,739-759)	9	5.2	12	13.6
Lymphoma	(9590-9714)*	27	31.2	39	26.1
Multiple Myeloma	(9730,9732)*	10	7.3	13	7.1
Leukemia	(9800-9941)*	17	16.8	15	12.1
All Cancers	(000-809)	704	702.3	810	716.7

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

WARREN COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	1	1.4	-	0.7
Esophagus	(150-159)	2	0.8	1	0.3
Stomach	(160-169)	-	0.9	1	0.6
Colon & Rectum	(180-209,260)	3	5.7	3	5.8
Liver & Bile Ducts	(220-221)	-	0.3	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.2	-	0.2
Pancreas	(250-259)	1	0.9	-	1
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.2	1	0.4
Larynx	(320-329)	2	0.9	-	0.2
Bronchus & Lung	(340-349)	9	9.9	1	5.3
Respiratory Organs	(300-319,339,381-399)	1	0.2	-	0.1
Bones & Joints	(400-419)	-	0.1	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.2	-	0.2
Melanoma of Skin	(8720-8790)*	-	1.3	-	1.1
Breast	(500-509)	-	0.1	9	14.8
Cervix Uteri	(530-539)	-	-	2	1.1
Uterus (Corpus,NOS)	(540-559)	-	-	1	2.5
Ovary	(569)	-	-	-	1.5
Prostate	(619)	15	15.7	-	-
Testis	(620-629)	-	0.3	-	-
Bladder	(670-679)	-	2.6	1	0.9
Kidney & Renal Pelvis	(640-659)	2	1.3	-	0.8
Brain & CNS	(700-729)	1	0.6	-	0.6
Endocrine System	(379,739-759)	-	0.2	1	0.6
Lymphoma	(9590-9714)*	1	1.7	2	1.6
Multiple Myeloma	(9730,9732)*	-	0.5	-	0.5
Leukemia	(9800-9941)*	-	1	1	0.7
All Cancers	(000-809)	38	49	25	44

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

WASHINGTON COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	3	1	-	0.5
Esophagus	(150-159)	3	0.6	1	0.2
Stomach	(160-169)	-	0.6	1	0.4
Colon & Rectum	(180-209,260)	1	3.7	3	3.8
Liver & Bile Ducts	(220-221)	1	0.2	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.1	-	0.1
Pancreas	(250-259)	-	0.6	-	0.6
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.2	-	0.3
Larynx	(320-329)	1	0.6	-	0.1
Bronchus & Lung	(340-349)	6	6.4	2	3.4
Respiratory Organs	(300-319,339,381-399)	-	0.2	-	0.1
Bones & Joints	(400-419)	-	0.1	-	-
Soft Tissue	(380,470-479,490-499)	-	0.2	1	0.2
Melanoma of Skin	(8720-8790)*	2	0.9	1	0.8
Breast	(500-509)	-	0.1	7	10.2
Cervix Uteri	(530-539)	-	-	-	0.8
Uterus (Corpus,NOS)	(540-559)	-	-	2	1.6
Ovary	(569)	-	-	2	1
Prostate	(619)	8	9.8	-	-
Testis	(620-629)	-	0.3	-	-
Bladder	(670-679)	-	1.7	1	0.6
Kidney & Renal Pelvis	(640-659)	-	0.9	-	0.5
Brain & CNS	(700-729)	1	0.4	-	0.4
Endocrine System	(379,739-759)	-	0.2	-	0.4
Lymphoma	(9590-9714)*	1	1.1	2	1.1
Multiple Myeloma	(9730,9732)*	-	0.3	1	0.3
Leukemia	(9800-9941)*	-	0.7	1	0.5
All Cancers	(000-809)	28	32.2	28	29.5

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

WATAUGA COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	2	2.3	-	1.1
Esophagus	(150-159)	-	1.3	-	0.4
Stomach	(160-169)	1	1.3	-	0.9
Colon & Rectum	(180-209,260)	8	8.5	5	8.1
Liver & Bile Ducts	(220-221)	1	0.4	-	0.2
Gallbladder & Biliary Tract	(239-249)	-	0.3	-	0.3
Pancreas	(250-259)	-	1.3	1	1.3
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.4	-	0.6
Larynx	(320-329)	2	1.4	-	0.3
Bronchus & Lung	(340-349)	11	14.7	6	7.3
Respiratory Organs	(300-319,339,381-399)	1	0.4	-	0.2
Bones & Joints	(400-419)	-	0.2	-	0.1
Soft Tissue	(380,470-479,490-499)	-	0.4	-	0.4
Melanoma of Skin	(8720-8790)*	4	2.2	6	1.8
Breast	(500-509)	-	0.1	18	22.5
Cervix Uteri	(530-539)	-	-	-	2
Uterus (Corpus,NOS)	(540-559)	-	-	1	3.5
Ovary	(569)	-	-	3	2.2
Prostate	(619)	21	22.3	-	-
Testis	(620-629)	-	0.8	-	-
Bladder	(670-679)	3	3.8	4	1.3
Kidney & Renal Pelvis	(640-659)	3	2	2	1.1
Brain & CNS	(700-729)	-	1	-	0.9
Endocrine System	(379,739-759)	1	0.4	-	1.1
Lymphoma	(9590-9714)*	4	2.8	4	2.5
Multiple Myeloma	(9730,9732)*	-	0.8	1	0.7
Leukemia	(9800-9941)*	3	1.6	1	1.1
All Cancers	(000-809)	69	73.7	55	65.3

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

WAYNE COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	8	6.3	6	3.1
Esophagus	(150-159)	4	3.6	2	1.2
Stomach	(160-169)	1	3.3	2	2.5
Colon & Rectum	(180-209,260)	31	22.1	19	23.5
Liver & Bile Ducts	(220-221)	-	1.1	2	0.6
Gallbladder & Biliary Tract	(239-249)	1	0.8	-	0.8
Pancreas	(250-259)	5	3.4	4	3.9
Digestive Organs	(170-179,210-218,268-269,480-489)	2	1.1	2	1.9
Larynx	(320-329)	-	4	1	1
Bronchus & Lung	(340-349)	42	39.2	25	22.1
Respiratory Organs	(300-319,339,381-399)	2	1	1	0.6
Bones & Joints	(400-419)	1	0.4	-	0.3
Soft Tissue	(380,470-479,490-499)	1	1.2	1	1
Melanoma of Skin	(8720-8790)*	10	6.2	4	5.2
Breast	(500-509)	-	0.4	75	67.9
Cervix Uteri	(530-539)	-	-	12	5.7
Uterus (Corpus,NOS)	(540-559)	-	-	6	10.7
Ovary	(569)	-	-	9	6.5
Prostate	(619)	61	57.3	-	-
Testis	(620-629)	1	2.5	-	-
Bladder	(670-679)	9	9.9	5	3.7
Kidney & Renal Pelvis	(640-659)	7	5.5	1	3.5
Brain & CNS	(700-729)	2	2.9	3	2.7
Endocrine System	(379,739-759)	-	1.3	4	3.2
Lymphoma	(9590-9714)*	3	7.9	3	6.9
Multiple Myeloma	(9730,9732)*	5	2	2	2.1
Leukemia	(9800-9941)*	4	4.4	2	3.1
All Cancers	(000-809)	210	195.9	203	193.6

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

WILKES COUNTY 1993

Site	*ICD-O2*	*Male*		*Female*	
		Observed	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	4	4.4	5	2.1
Esophagus	(150-159)	-	2.5	-	0.8
Stomach	(160-169)	5	2.5	1	1.8
Colon & Rectum	(180-209,260)	18	16.2	18	16.2
Liver & Bile Ducts	(220-221)	-	0.8	-	0.4
Gallbladder & Biliary Tract	(239-249)	-	0.6	-	0.6
Pancreas	(250-259)	3	2.5	1	2.7
Digestive Organs	(170-179,210-218,268-269,480-489)	2	0.7	-	1.2
Larynx	(320-329)	2	2.8	-	0.6
Bronchus & Lung	(340-349)	31	28.4	15	14.6
Respiratory Organs	(300-319,339,381-399)	-	0.7	1	0.4
Bones & Joints	(400-419)	-	0.2	-	0.2
Soft Tissue	(380,470-479,490-499)	1	0.8	2	0.7
Melanoma of Skin	(8720-8790)*	6	4.1	3	3.3
Breast	(500-509)	-	0.3	41	44.6
Cervix Uteri	(530-539)	-	-	4	3.6
Uterus (Corpus,NOS)	(540-559)	-	-	10	7
Ovary	(569)	-	-	6	4.3
Prostate	(619)	48	42.8	-	-
Testis	(620-629)	1	1.3	-	-
Bladder	(670-679)	9	7.3	2	2.6
Kidney & Renal Pelvis	(640-659)	5	3.9	5	2.3
Brain & CNS	(700-729)	2	1.9	3	1.7
Endocrine System	(379,739-759)	1	0.8	4	1.9
Lymphoma	(9590-9714)*	4	5.2	3	4.6
Multiple Myeloma	(9730,9732)*	3	1.5	1	1.4
Leukemia	(9800-9941)*	7	2.9	4	2
All Cancers	(000-809)	161	140.8	138	128.2

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

WILSON COUNTY 1993

		Male		Female	
Site	*ICD-O2*	*Observed*	*Expected*	*Observed*	*Expected*
Oral Cavity & Pharynx	(000-148)	12	4.2	3	2.3
Esophagus	(150-159)	3	2.4	2	0.9
Stomach	(160-169)	5	2.3	-	1.9
Colon & Rectum	(180-209,260)	14	15.3	12	17.6
Liver & Bile Ducts	(220-221)	-	0.7	1	0.5
Gallbladder & Biliary Tract	(239-249)	-	0.6	-	0.6
Pancreas	(250-259)	4	2.4	1	2.9
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.7	3	1.3
Larynx	(320-329)	1	2.7	-	0.7
Bronchus & Lung	(340-349)	25	27	21	16
Respiratory Organs	(300-319,339,381-399)	2	0.7	-	0.4
Bones & Joints	(400-419)	1	0.2	-	0.2
Soft Tissue	(380,470-479,490-499)	-	0.7	-	0.7
Melanoma of Skin	(8720-8790)*	5	4	1	3.7
Breast	(500-509)	3	0.3	71	48.5
Cervix Uteri	(530-539)	-	-	5	4
Uterus (Corpus,NOS)	(540-559)	-	-	5	7.7
Ovary	(569)	-	-	4	4.7
Prostate	(619)	24	40.4	-	-
Testis	(620-629)	1	1.3	-	-
Bladder	(670-679)	5	6.9	3	2.8
Kidney & Renal Pelvis	(640-659)	3	3.7	4	2.5
Brain & CNS	(700-729)	1	1.8	2	1.9
Endocrine System	(379,739-759)	1	0.8	-	2.2
Lymphoma	(9590-9714)*	4	5.1	7	5
Multiple Myeloma	(9730,9732)*	1	1.4	-	1.6
Leukemia	(9800-9941)*	3	2.9	2	2.2
All Cancers	(000-809)	123	134	157	140

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

YADKIN COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	1	2.4	1	1.2
Esophagus	(150-159)	-	1.4	-	0.5
Stomach	(160-169)	2	1.4	2	1
Colon & Rectum	(180-209,260)	16	9.1	14	9.4
Liver & Bile Ducts	(220-221)	-	0.4	-	0.2
Gallbladder & Biliary Tract	(239-249)	-	0.3	1	0.3
Pancreas	(250-259)	1	1.4	-	1.6
Digestive Organs	(170-179,210-218,268-269,480-489)	1	0.4	-	0.7
Larynx	(320-329)	1	1.5	-	0.3
Bronchus & Lung	(340-349)	12	15.8	6	8.3
Respiratory Organs	(300-319,339,381-399)	1	0.4	-	0.2
Bones & Joints	(400-419)	-	0.1	1	0.1
Soft Tissue	(380,470-479,490-499)	-	0.4	-	0.4
Melanoma of Skin	(8720-8790)*	2	2.3	5	1.8
Breast	(500-509)	-	0.1	21	24.8
Cervix Uteri	(530-539)	-	-	1	2
Uterus (Corpus,NOS)	(540-559)	-	-	4	3.9
Ovary	(569)	-	-	1	2.4
Prostate	(619)	20	24	-	-
Testis	(620-629)	-	0.6	-	-
Bladder	(670-679)	1	4.1	1	1.5
Kidney & Renal Pelvis	(640-659)	2	2.1	1	1.3
Brain & CNS	(700-729)	-	1	-	0.9
Endocrine System	(379,739-759)	-	0.4	2	1
Lymphoma	(9590-9714)*	2	2.8	2	2.6
Multiple Myeloma	(9730,9732)*	3	0.8	-	0.8
Leukemia	(9800-9941)*	5	1.6	2	1.1
All Cancers	(000-809)	74	78	66	72.1

* Morphology (See Technical Notes, Section 2 Page 2)

Table 1. Observed And Expected Frequencies Of Selected Cancer Sites By County Of Residence

YANCEY COUNTY 1993

		Male		*Female*	
Site	***ICD-O2***	***Observed***	***Expected***	***Observed***	***Expected***
Oral Cavity & Pharynx	(000-148)	1	1.3	1	0.6
Esophagus	(150-159)	-	0.8	-	0.3
Stomach	(160-169)	2	0.8	-	0.6
Colon & Rectum	(180-209,260)	5	5.1	5	5.1
Liver & Bile Ducts	(220-221)	-	0.2	-	0.1
Gallbladder & Biliary Tract	(239-249)	-	0.2	-	0.2
Pancreas	(250-259)	-	0.8	1	0.8
Digestive Organs	(170-179,210-218,268-269,480-489)	-	0.2	-	0.4
Larynx	(320-329)	-	0.8	-	0.2
Bronchus & Lung	(340-349)	8	8.7	-	4.4
Respiratory Organs	(300-319,339,381-399)	-	0.2	-	0.1
Bones & Joints	(400-419)	-	0.1	-	-
Soft Tissue	(380,470-479,490-499)	-	0.2	-	0.2
Melanoma of Skin	(8720-8790)*	-	1.2	-	0.9
Breast	(500-509)	-	0.1	17	13
Cervix Uteri	(530-539)	-	-	2	1
Uterus (Corpus,NOS)	(540-559)	-	-	2	2.1
Ovary	(569)	-	-	3	1.3
Prostate	(619)	5	13.6	-	-
Testis	(620-629)	1	0.3	-	-
Bladder	(670-679)	-	2.3	1	0.8
Kidney & Renal Pelvis	(640-659)	2	1.2	2	0.7
Brain & CNS	(700-729)	-	0.5	1	0.5
Endocrine System	(379,739-759)	-	0.2	-	0.5
Lymphoma	(9590-9714)*	2	1.5	1	1.4
Multiple Myeloma	(9730,9732)*	-	0.5	-	0.5
Leukemia	(9800-9941)*	-	0.9	-	0.6
All Cancers	(000-809)	26	43.5	39	38.3

* Morphology (See Technical Notes, Section 2 Page 2)

Table 2. Cancer Incidence And Mortality By County Of Residence

County	Incidence	Deaths
North Carolina	27551	14602
Alamance	589	273
Alexander	112	55
Alleghany	27	21
Anson	105	59
Ashe	120	74
Avery	56	36
Beaufort	166	111
Bertie	61	52
Bladen	125	99
Brunswick	272	136
Buncombe	921	451
Burke	377	179
Cabarrus	370	209
Caldwell	298	144
Camden	17	18
Carteret	232	149
Caswell	80	50
Catawba	564	256
Chatham	170	107
Cherokee	81	54
Chowan	78	32
Clay	14	25
Cleveland	335	208
Columbus	219	123
Craven	387	186
Cumberland	626	409
Currituck	25	47
Dare	49	64
Davidson	526	256
Davie	130	59
Duplin	144	112
Durham	707	388
Edgecombe	239	137
Forsyth	1348	577
Franklin	136	81
Gaston	774	394
Gates	15	25
Graham	36	21
Granville	138	84
Greene	64	38
Guilford	1543	744
Halifax	266	112
Harnett	259	144
Haywood	191	135
Henderson	511	253
Hertford	72	55
Hoke	90	50
Hyde	31	16
Iredell	396	234
Jackson	111	54

Table 2. Cancer Incidence And Mortality By County Of Residence

County	Incidence	Deaths
Johnston	350	195
Jones	52	16
Lee	195	112
Lenoir	325	156
Lincoln	239	106
McDowell	169	83
Macon	178	73
Madison	77	45
Martin	102	56
Mecklenburg	1986	968
Mitchell	61	46
Montgomery	90	43
Moore	421	191
Nash	357	180
New Hanover	536	329
Northampton	74	48
Onslow	240	157
Orange	366	138
Pamlico	62	40
Pasquotank	111	79
Pender	131	93
Perquimans	43	33
Person	144	71
Pitt	363	198
Polk	65	50
Randolph	445	205
Richmond	188	107
Robeson	329	234
Rockingham	386	201
Rowan	335	299
Rutherford	231	149
Sampson	235	111
Scotland	106	81
Stanly	230	116
Stokes	166	89
Surry	308	148
Swain	70	33
Transylvania	154	51
Tyrrell	8	12
Union	299	164
Vance	167	99
Wake	1514	662
Warren	63	44
Washington	56	36
Watauga	124	56
Wayne	413	200
Wilkes	299	137
Wilson	280	166
Yadkin	140	65
Yancey	65	35

Table 3. Age-Specific Cancer Incidence By County Of Residence

County	0-19	20-44	45-64	65+
North Carolina	248	2481	9317	15505
Alamance	4	55	180	350
Alexander	1	7	41	63
Alleghany	-	3	7	17
Anson	1	10	30	64
Ashe	-	9	40	71
Avery	-	5	13	38
Beaufort	1	10	46	109
Bertie	1	6	25	29
Bladen	-	9	50	66
Brunswick	-	27	104	141
Buncombe	4	83	292	542
Burke	3	39	128	207
Cabarrus	4	39	134	193
Caldwell	5	29	110	154
Camden	-	-	5	12
Carteret	4	10	78	140
Caswell	1	8	35	36
Catawba	4	42	177	341
Chatham	2	17	57	94
Cherokee	-	3	31	47
Chowan	1	6	17	54
Clay	1	1	2	10
Cleveland	4	35	102	194
Columbus	3	17	81	118
Craven	2	23	114	248
Cumberland	7	72	246	301
Currituck	-	3	7	15
Dare	-	4	9	36
Davidson	6	42	197	281
Davie	3	12	47	68
Duplin	2	7	55	80
Durham	9	83	241	374
Edgecombe	3	21	71	144
Forsyth	12	116	469	751
Franklin	2	13	40	81
Gaston	3	78	249	444
Gates	-	3	9	3
Graham	-	1	12	23
Granville	-	8	61	69
Greene	-	6	23	35
Guilford	10	141	514	878
Halifax	1	18	83	164
Harnett	4	19	95	141
Haywood	-	15	71	105
Henderson	7	22	128	354
Hertford	1	4	22	45
Hoke	-	8	31	51
Hyde	-	3	8	20
Iredell	-	36	129	231
Jackson	-	9	42	60

Table 3. Age-Specific Cancer Incidence By County Of Residence

County	0-19	20-44	45-64	65+
Johnston	2	32	124	192
Jones	-	8	15	29
Lee	2	19	64	110
Lenoir	4	26	100	195
Lincoln	3	19	100	117
McDowell	1	14	61	93
Macon	1	5	37	135
Madison	2	4	18	53
Martin	2	4	32	64
Mecklenburg	10	224	709	1043
Mitchell	-	4	23	34
Montgomery	-	6	31	53
Moore	1	23	110	287
Nash	5	32	113	207
New Hanover	6	39	197	294
Northampton	-	5	23	46
Onslow	3	28	85	124
Orange	6	56	119	185
Pamlico	1	2	17	42
Pasquotank	-	5	29	77
Pender	2	12	43	74
Perquimans	-	2	9	32
Person	2	16	38	88
Pitt	6	44	132	181
Polk	1	3	18	43
Randolph	6	35	146	258
Richmond	1	12	73	102
Robeson	5	26	98	200
Rockingham	3	28	134	221
Rowan	6	37	94	198
Rutherford	1	15	63	152
Sampson	3	28	88	116
Scotland	1	10	40	55
Stanly	4	14	85	127
Stokes	1	10	57	98
Surry	3	26	88	191
Swain	1	3	27	39
Transylvania	2	11	41	100
Tyrrell	-	-	1	7
Union	3	26	133	137
Vance	7	19	66	75
Wake	14	188	575	737
Warren	1	3	24	35
Washington	-	1	30	25
Watauga	1	11	44	68
Wayne	3	38	146	226
Wilkes	2	26	84	187
Wilson	2	28	105	145
Yadkin	2	10	48	80
Yancey	-	7	22	36

Table 4. North Carolina Age-Specific Rates Per 100,000 Population By Site, 1990-93

Site	0 to 4		5 to 14		15 to 24		25 to 34		35 to 44	
	#	rate	#	rate	#	rate	#	rate	#	rate
Oral Cavity & Pharynx	***3***	**	***6***	**	***29***	***0.69***	***58***	***1.28***	***198***	***4.75***
Lips	-	-	-	-	1	**	5	**	10	**
Tongue	2	**	-	-	3	**	12	0.26	40	0.96
Salivary Glands	-	-	3	**	12	0.28	11	0.24	23	0.55
Floor of Mouth	-	-	-	-	-	-	2	**	17	0.41
Nasopharynx	-	-	3	**	9	**	11	0.24	19	0.46
Oropharynx	-	-	-	-	-	-	1	**	12	0.29
Hypopharynx	-	-	-	-	1	**	-	-	7	**
Other Mouth & Pharynx	1	**	-	-	3	**	16	0.35	70	1.68
Digestive System	***14***	***0.72***	***6***	**	***42***	***1***	***202***	***4.46***	***783***	***18.78***
Esophagus	-	-	-	-	1	**	7	**	51	1.22
Stomach	-	-	-	-	4	**	34	0.75	76	1.82
Small Intestine	-	-	-	-	3	**	7	**	22	0.53
Colon & Rectum	1	**	2	**	23	0.54	113	2.49	479	11.49
Anus & Anal Canal	-	-	-	-	1	**	14	0.31	33	0.79
Liver & Intrahepatic Bile Duct	3	**	1	**	5	**	11	0.24	35	0.84
Gallbladder	-	-	-	-	-	-	-	-	13	0.31
Pancreas	-	-	-	-	1	**	6	**	59	1.41
Other Digestive Organs	10	**	3	**	4	**	10	**	15	0.36
Respiratory System	***6***	**	***5***	**	***17***	***0.4***	***93***	***2.05***	***536***	***12.85***
Larynx	-	-	-	-	2	**	9	**	70	1.68
Lung & Bronchus	1	**	1	**	5	**	63	1.39	438	10.5
Other Respiratory Organs	5	**	4	**	10	**	21	0.46	28	0.67
Bones and Joints	***2***	**	***19***	***0.53***	***31***	***0.73***	***23***	***0.51***	***19***	***0.46***
Soft Tissues	***19***	***0.97***	***19***	***0.53***	***29***	***0.69***	***50***	***1.1***	***73***	***1.75***
Melanoma of Skin	***1***	**	***1***	**	***77***	***1.82***	***229***	***5.05***	***482***	***11.56***
Other Skin	-	-	1	**	16	0.38	75	1.65	94	2.25
Invasive Breast	-	-	-	-	9	**	447	9.86	1855	44.48
In Situ Breast	-	-	-	-	1	**	28	0.62	267	6.4

** Rates based on 10 cases and less are unreliable and suppressed.

Table 4. North Carolina Age-Specific Rates Per 100,000 Population By Site, 1990-93

Site	0 to 4		5 to 14		15 to 24		25 to 34		35 to 44	
	#	rate	#	rate	#	rate	#	rate	#	rate
Female Genital System	***2***	**	***4***	**	***100***	***2.37***	***498***	***10.98***	***893***	***21.41***
Cervix Uteri	-	-	-	-	34	0.81	246	5.43	351	8.42
Uterus (Corpus, NOS)	-	-	-	-	9	**	40	0.88	175	4.2
Ovary	1	**	4	**	29	0.69	102	2.25	208	4.99
Other Female Genital Organs	1	**	-	-	28	0.66	110	2.43	159	3.81
Male Genital System	***4***	**	***3***	**	***80***	***1.9***	***238***	***5.25***	***199***	***4.77***
Prostate	1	**	1	**	2	**	2	**	28	0.67
Testis	3	**	2	**	77	1.82	228	5.03	152	3.64
Penis	-	-	-	-	1	**	6	**	18	0.43
Other Male Genital Organs	-	-	-	-	-	-	2	**	1	**
Urinary System	***38***	***1.94***	***7***	**	***15***	***0.36***	***68***	***1.5***	***291***	***6.98***
Bladder	3	**	-	-	10	**	26	0.57	127	3.05
Kidney & Renal Pelvis	35	1.79	7	**	4	**	40	0.88	158	3.79
Ureter	-	-	-	-	-	-	-	-	4	**
Other Urinary System	-	-	-	-	1	**	2	**	2	**
Eye & Orbit	***11***	***0.56***	***-***	***-***	***1***	**	***4***	**	***17***	***0.41***
Brain & CNS	***65***	***3.32***	***96***	***2.68***	***64***	***1.52***	***147***	***3.24***	***166***	***3.98***
Endocrine System	***21***	***1.07***	***16***	***0.45***	***64***	***1.52***	***181***	***3.99***	***209***	***5.01***
Thyroid	-	-	5	**	54	1.28	172	3.79	199	4.77
Other Endocrine & Thymus	21	1.07	11	0.31	10	**	9	**	10	**
Lymphoma	***10***	**	***53***	***1.48***	***221***	***5.24***	***356***	***7.85***	***360***	***8.63***
Hodgkin's Disease	2	**	24	0.67	157	3.72	170	3.75	82	1.97
Non-Hodgkin's	8	**	29	0.81	64	1.52	186	4.1	278	6.67
Multiple Myeloma	***-***	***-***	***-***	***-***	***-***	***-***	***5***	**	***32***	***0.77***
Leukemia	***122***	***6.24***	***104***	***2.9***	***78***	***1.85***	***94***	***2.07***	***154***	***3.69***
Acute Lymphocytic	96	4.91	78	2.18	33	0.78	16	0.35	23	0.55
Chronic Lymphocytic	-	-	-	-	-	-	4	**	9	**
Acute Myeloid	18	0.92	17	0.47	27	0.64	28	0.62	63	1.51
Chronic Myeloid	1	**	2	**	9	**	21	0.46	27	0.65
Other Leukemia	7	**	7	**	9	**	25	0.55	32	0.77
Ill-Defined & Unspecified	***13***	***0.66***	***3***	**	***25***	***0.59***	***112***	***2.47***	***224***	***5.37***

** Rates based on 10 cases and less are unreliable and suppressed.

Table 4. North Carolina Age-Specific Rates Per 100,000 Population By Site, 1990-93

Site	45 to 54 #	45 to 54 rate	55 to 64 #	55 to 64 rate	65 to 74 #	65 to 74 rate	75 to 84 #	75 to 84 rate	85 + #	85 + rate
Oral Cavity & Pharynx	***435***	***14.41***	***682***	***28.84***	***769***	***38.91***	***397***	***37.84***	***128***	***41.52***
Lips	24	0.8	41	1.73	54	2.73	50	4.77	17	5.51
Tongue	99	3.28	156	6.6	158	7.99	90	8.58	15	4.87
Salivary Glands	27	0.89	49	2.07	60	3.04	35	3.34	16	5.19
Floor of Mouth	47	1.56	76	3.21	74	3.74	23	2.19	7	**
Nasopharynx	30	0.99	35	1.48	40	2.02	15	1.43	3	**
Oropharynx	16	0.53	27	1.14	29	1.47	5	**	2	**
Hypopharynx	50	1.66	87	3.68	108	5.46	33	3.15	11	3.57
Other Mouth & Pharynx	142	4.7	211	8.92	246	12.45	146	13.92	57	18.49
Digestive System	***1940***	***64.27***	***4050***	***171.29***	***6423***	***324.96***	***5123***	***488.34***	***1599***	***518.67***
Esophagus	176	5.83	342	14.46	408	20.64	181	17.25	44	14.27
Stomach	160	5.3	314	13.28	507	25.65	467	44.52	177	57.41
Small Intestine	38	1.26	59	2.5	98	4.96	55	5.24	9	**
Colon & Rectum	1195	39.59	2579	109.07	4135	209.2	3470	330.77	1066	345.78
Anus & Anal Canal	51	1.69	45	1.9	64	3.24	38	3.62	11	3.57
Liver & Intrahepatic Bile Duct	59	1.95	114	4.82	191	9.66	125	11.92	28	9.08
Gallbladder	15	0.5	53	2.24	62	3.14	78	7.44	29	9.41
Pancreas	186	6.16	475	20.09	794	40.17	597	56.91	202	65.52
Other Digestive Organs	60	1.99	69	2.92	164	8.3	112	10.68	33	10.7
Respiratory System	***2161***	***71.59***	***5162***	***218.32***	***7078***	***358.1***	***3364***	***320.66***	***455***	***147.59***
Larynx	241	7.98	463	19.58	455	23.02	190	18.11	34	11.03
Lung & Bronchus	1874	62.09	4601	194.59	6505	329.11	3096	295.12	406	131.69
Other Respiratory Organs	46	1.52	98	4.14	118	5.97	78	7.44	15	4.87
Bones and Joints	***21***	***0.7***	***17***	***0.72***	***26***	***1.32***	***13***	***1.24***	***4***	**
Soft Tissues	***79***	***2.62***	***77***	***3.26***	***119***	***6.02***	***77***	***7.34***	***31***	***10.06***
Melanoma of Skin	***561***	***18.59***	***529***	***22.37***	***652***	***32.99***	***338***	***32.22***	***100***	***32.44***
Breast	***3529***	***116.92***	***3972***	***167.99***	***4589***	***232.17***	***2830***	***269.76***	***693***	***224.79***
Invasive Breast	3079	102.01	3529	149.25	4070	205.91	2552	243.26	643	208.57
In Situ Breast	450	14.91	443	18.74	519	26.26	278	26.5	50	16.22

45 to 54 55 to 64 65 to 74 75 to 84 85 +

** Rates based on 10 cases and less are unreliable and suppressed.

Table 4. North Carolina Age-Specific Rates Per 100,000 Population By Site, 1990-93

Site	#	rate	#	rate	#	rate	#	rate	#	rate
Female Genital System	***1065***	***35.28***	***1554***	***65.72***	***1881***	***95.17***	***1146***	***109.24***	***303***	***98.28***
Cervix Uteri	272	9.01	237	10.02	251	12.7	159	15.16	54	17.52
Uterus (Corpus, NOS)	365	12.09	751	31.76	956	48.37	478	45.56	111	36.01
Ovary	293	9.71	426	18.02	499	25.25	358	34.13	86	27.9
Other Female Genital Organs	135	4.47	140	5.92	175	8.85	151	14.39	52	16.87
Male Genital System	***580***	***19.22***	***3150***	***133.22***	***7830***	***396.14***	***4724***	***450.3***	***919***	***298.1***
Prostate	504	16.7	3103	131.23	7789	394.07	4691	447.16	910	295.18
Testis	39	1.29	16	0.68	7	**	4	**	-	-
Penis	36	1.19	25	1.06	28	1.42	24	2.29	9	**
Other Male Genital Organs	1	**	6	**	6	**	5	**	-	-
Urinary System	***723***	***23.95***	***1451***	***61.37***	***2310***	***116.87***	***1639***	***156.23***	***423***	***137.21***
Bladder	357	11.83	840	35.53	1432	72.45	1108	105.62	323	104.77
Kidney & Renal Pelvis	359	11.89	574	24.28	775	39.21	465	44.32	83	26.92
Ureter	4	**	29	1.23	72	3.64	51	4.86	13	4.22
Other Urinary System	3	**	8	**	31	1.57	15	1.43	4	**
Eye & Orbit	***29***	***0.96***	***51***	***2.16***	***68***	***3.44***	***38***	***3.62***	***5***	**
Brain & CNS	***200***	***6.63***	***286***	***12.1***	***358***	***18.11***	***180***	***17.16***	***18***	***5.84***
Endocrine System	***177***	***5.86***	***165***	***6.98***	***167***	***8.45***	***77***	***7.34***	***12***	***3.89***
Thyroid	155	5.14	146	6.17	145	7.34	64	6.1	11	3.57
Other Endocrine & Thymus	22	0.73	19	0.8	22	1.11	13	1.24	1	**
Lymphoma	***463***	***15.34***	***694***	***29.35***	***980***	***49.58***	***734***	***69.97***	***199***	***64.55***
Hodgkin's Disease	68	2.25	59	2.5	57	2.88	44	4.19	9	**
Non-Hodgkin's	395	13.09	635	26.86	923	46.7	690	65.77	190	61.63
Multiple Myeloma	***112***	***3.71***	***270***	***11.42***	***397***	***20.09***	***287***	***27.36***	***67***	***21.73***
Leukemia	***194***	***6.43***	***345***	***14.59***	***519***	***26.26***	***422***	***40.23***	***124***	***40.22***
Acute Lymphocytic	9	**	20	0.85	16	0.81	13	1.24	7	**
Chronic Lymphocytic	46	1.52	106	4.48	179	9.06	135	12.87	40	12.97
Acute Myeloid	63	2.09	116	4.91	167	8.45	151	14.39	38	12.33
Chronic Myeloid	37	1.23	47	1.99	53	2.68	49	4.67	15	4.87
Other Leukemia	39	1.29	56	2.37	104	5.26	74	7.05	24	7.78
Ill-Defined & Unspecified	***319***	***10.57***	***600***	***25.38***	***929***	***47.0***	***717***	***68.35***	***288***	***93.42***

** Rates based on 10 cases and less are unreliable and suppressed.

Table 5. North Carolina Age-Adjusted Rates Per 100,000 Population* By Site and Race, 1990-93: Males

Site	White [1]		Black		Total	
	#	Rate	#	Rate	#	Rate
All Sites	***46261***	***494.01***	***10140***	***549.71***	***56401***	***502.55***
Oral Cavity and Pharynx	***1305***	***13.23***	***447***	***21.36***	***1752***	***14.55***
Lips	148	1.60	1	**	149	1.35
Tongue	291	2.87	81	3.86	372	3.03
Salivary Glands	107	1.14	20	0.98	127	1.12
Floor of Mouth	93	0.91	74	3.54	167	1.34
Nasopharynx	77	0.76	33	1.40	110	0.88
Oropharynx	49	0.48	25	1.16	74	0.59
Hypopharynx	157	1.63	74	3.74	231	1.96
Other Mouth & Pharynx	383	3.84	139	6.63	522	4.29
Digestive System	***8229***	***88.85***	***2109***	***114.44***	***10338***	***93.03***
Esophagus	569	5.79	336	17.19	905	7.61
Stomach	708	7.71	309	17.17	1017	9.27
Small Intestine	116	1.17	36	1.80	152	1.28
Colon & Rectum	5354	58.27	1024	56.49	6378	58.00
Anus & Anal Canal	62	0.64	19	0.86	81	0.69
Liver & Intrahepatic Bile Duct	291	3.04	79	4.18	370	3.23
Gallbladder	61	0.72	13	0.73	74	0.72
Pancreas	884	9.52	255	14.08	1139	10.26
Other Digestive Organs	184	1.98	38	1.94	222	1.98
Respiratory System	***10379***	***107.57***	***2365***	***124.75***	***12744***	***110.29***
Larynx	901	9.11	268	13.81	1169	9.88
Lung & Bronchus	9234	95.94	2041	108.12	11275	97.84
Other Respiratory Organs	244	2.53	56	2.82	300	2.57
Bones and Joints	***74***	***0.73***	***12***	***0.50***	***86***	***0.67***
Soft Tissues	***255***	***2.67***	***58***	***2.39***	***313***	***2.64***
Melanoma of Skin	***1631***	***16.16***	***8***	**	***1639***	***13.50***
Breast	***87***	***0.98***	***25***	***1.33***	***112***	***1.04***
Invasive Breast	81	0.91	23	1.25	104	0.96
In Situ Breast	6	**	2	**	8	**

* Age-adjusted rates have been standardized to the 1990 U.S. Census Population.

** Rates based on 10 cases and less are unreliable and suppressed.

[1]. "Other Race" is included with whites. See section "Incidence Rates".

Table 5. North Carolina Age-Adjusted Rates Per 100,000 Population* By Site and Race, 1990-93: Males

Site	White [1]		Black		Total	
	#	Rate	#	Rate	#	Rate
Male Genital System	***14184***	***156.88***	***3543***	***205.67***	***17727***	***164.66***
Prostate	13553	150.86	3478	176.47	17031	159.30
Testis	503	4.67	25	0.93	528	3.90
Penis	111	1.17	36	1.75	147	1.28
Other Male Genital Organs	17	0.18	4	**	21	0.18
Urinary System	***4261***	***45.88***	***500***	***26.51***	***4761***	***42.69***
Bladder	2867	31.47	241	13.53	3108	28.52
Kidney & Renal Pelvis	1263	12.98	248	12.42	1511	12.88
Ureter	103	1.11	2	**	105	0.95
Other Urinary System	28	0.32	9	**	37	0.34
Eye & Orbit	***117***	***1.15***	***6***	**	***123***	***1.02***
Brain & CNS	***751***	***7.46***	***86***	***3.48***	***837***	***6.80***
Endocrine System	***300***	***2.89***	***40***	***1.78***	***340***	***2.67***
Thyroid	241	2.29	24	1.14	265	2.08
Other Endocrine & Thymus	59	0.60	16	0.64	75	0.60
Lymphoma	***1842***	***18.90***	***283***	***12.95***	***2125***	***17.91***
Hodgkin's Disease	288	2.76	56	2.11	344	2.63
Non-Hodgkin's	1554	16.15	227	10.85	1781	15.28
Multiple Myeloma	***403***	***4.38***	***161***	***8.94***	***564***	***5.12***
Leukemia	***1013***	***10.85***	***188***	***8.84***	***1201***	***10.47***
Acute Lymphocytic	147	1.50	30	1.00	177	1.37
Chronic Lymphocytic	266	2.97	47	2.61	313	2.90
Acute Myeloid	299	3.21	61	2.93	360	3.17
Chronic Myeloid	133	1.43	24	1.20	157	1.39
Other Leukemia	168	1.74	26	1.11	194	1.64
Ill-Defined & Unspecified	***1430***	***15.42***	***309***	***16.03***	***1739***	***15.50***

* Age-adjusted rates have been standardized to the 1990 U.S. Census Population.

** Rates based on 10 cases and less are unreliable and suppressed.

[1]. "Other Race" is included with whites. See section "Incidence Rates".

Table 5. North Carolina Age-Adjusted Rates Per 100,000 Population* By Site and Race, 1990-93: Females

Site	White [1]		Black		Total	
	#	Rate	#	Rate	#	Rate
All Sites	***43952***	***348.10***	***9006***	***315.87***	***52958***	***342.10***
Oral Cavity and Pharynx	***792***	***6.17***	***161***	***5.68***	***953***	***6.09***
Lips	52	0.39	1	**	53	0.33
Tongue	169	1.31	34	1.21	203	1.30
Salivary Glands	94	0.77	15	0.49	109	0.72
Floor of Mouth	60	0.47	19	0.67	79	0.51
Nasopharynx	44	0.36	11	0.37	55	0.37
Oropharynx	13	0.10	5	**	18	0.12
Hypopharynx	52	0.41	14	0.51	66	0.43
Other Mouth & Pharynx	308	2.35	62	2.20	370	2.33
Digestive System	***7646***	***58.23***	***2198***	***77.44***	***9844***	***61.70***
Esophagus	203	1.54	102	3.69	305	1.94
Stomach	485	3.66	237	8.22	722	4.48
Small Intestine	103	0.80	36	1.28	139	0.89
Colon & Rectum	5330	40.56	1355	47.79	6685	41.88
Anus & Anal Canal	151	1.20	25	0.87	176	1.15
Liver & Intrahepatic Bile Duct	168	1.31	34	1.20	202	1.28
Gallbladder	130	1.00	46	1.60	176	1.10
Pancreas	876	6.61	305	10.76	1181	7.35
Other Digestive Organs	200	1.56	58	2.03	258	1.64
Respiratory System	***5329***	***41.80***	***804***	***28.80***	***6133***	***39.51***
Larynx	247	1.97	48	1.73	295	1.93
Lung & Bronchus	4975	38.98	740	26.50	5715	36.78
Other Respiratory Organs	107	0.85	16	0.57	123	0.80
Bones and Joints	***70***	***0.62***	***19***	***0.61***	***89***	***0.62***
Soft Tissues	***204***	***1.68***	***56***	***1.86***	***260***	***1.72***
Melanoma of Skin	***1313***	***10.90***	***18***	***0.63***	***1331***	***8.86***
Breast	***15228***	***121.31***	***2880***	***101.19***	***18108***	***117.83***
Invasive Breast	13462	107.17	2618	91.97	16080	104.59
In Situ Breast	1766	14.14	262	9.22	2028	13.24

* Age-adjusted rates have been standardized to the 1990 U.S. Census Population.

** Rates based on 10 cases and less are unreliable and suppressed.

[1]. "Other Race" is included with whites. See section "Incidence Rates".

Table 5. North Carolina Age-Adjusted Rates Per 100,000 Population* By Site and Race, 1990-93: Females

Site	White [1]		Black		Total	
	#	Rate	#	Rate	#	Rate
Female Genital System	***6056***	***49.01***	***1390***	***48.52***	***7446***	***48.81***
Cervix Uteri	1122	9.53	482	16.54	1604	10.80
Uterus (Corpus, NOS)	2404	19.00	481	17.17	2885	18.64
Ovary	1723	13.83	283	9.88	2006	13.07
Other Female Genital Organs	807	6.65	144	4.93	951	6.29
Urinary System	***1835***	***14.18***	***369***	***12.95***	***2204***	***13.96***
Bladder	975	7.42	143	4.98	1118	6.98
Kidney & Renal Pelvis	778	6.14	211	7.43	989	6.38
Ureter	62	0.46	6	**	68	0.42
Other Urinary System	20	0.16	9	**	29	0.19
Eye & Orbit	***96***	***0.75***	***5***	**	***101***	***0.65***
Brain & CNS	***649***	***5.54***	***94***	***3.14***	***743***	***5.05***
Endocrine System	***626***	***5.45***	***123***	***4.20***	***749***	***5.14***
Thyroid	579	5.03	107	3.67	686	4.70
Other Endocrine & Thymus	47	0.42	16	0.53	63	0.44
Lymphoma	***1691***	***13.51***	***254***	***8.58***	***1945***	***12.64***
Hodgkin's Disease	264	2.37	64	2.03	328	2.30
Non-Hodgkin's	1427	11.13	190	6.55	1617	10.34
Multiple Myeloma	***412***	***3.15***	***194***	***6.93***	***606***	***3.83***
Leukemia	***800***	***6.56***	***155***	***5.22***	***955***	***6.28***
Acute Lymphocytic	116	1.15	18	0.54	134	0.99
Chronic Lymphocytic	173	1.32	33	1.18	206	1.29
Acute Myeloid	271	2.17	57	1.91	328	2.13
Chronic Myeloid	84	0.69	20	0.68	104	0.69
Other Leukemia	156	1.23	27	0.92	183	1.18
Ill-Defined & Unspecified	***1205***	***9.24***	***286***	***9.97***	***1491***	***9.40***

* Age-adjusted rates have been standardized to the 1990 U.S. Census Population.

** Rates based on 10 cases and less are unreliable and suppressed.

[1]. "Other Race" is included with whites. See section "Incidence Rates".

Table 5. North Carolina Age-Adjusted Rates Per 100,000 Population* By Site and Race, 1990-93: All Sexes

Sites	White [1] #	White [1] Rate	Black #	Black Rate	Total #	Total Rates
All Sites	***90213***	***401.16***	***19146***	***402.47***	***109359***	***401.16***
Oral Cavity and Pharynx	***2097***	***9.30***	***608***	***12.40***	***2705***	***9.85***
Lips	200	0.89	2	**	202	0.75
Tongue	460	2.03	115	2.35	575	2.09
Salivary Glands	201	0.90	35	0.68	236	0.86
Floor of Mouth	153	0.67	93	1.90	246	0.89
Nasopharynx	121	0.54	44	0.83	165	0.60
Oropharynx	62	0.27	30	0.61	92	0.33
Hypopharynx	209	0.92	88	1.85	297	1.08
Other Mouth & Pharynx	691	3.07	201	4.14	892	3.26
Digestive System	***15875***	***70.91***	***4307***	***92.09***	***20182***	***74.58***
Esophagus	772	3.42	438	9.23	1210	4.41
Stomach	1193	5.35	546	11.71	1739	6.45
Small Intestine	219	0.97	72	1.51	291	1.06
Colon & Rectum	10684	47.74	2379	51.02	13063	48.33
Anus & Anal Canal	213	0.94	44	0.87	257	0.94
Liver & Intrahepatic Bile Duct	459	2.05	113	2.37	572	2.10
Gallbladder	191	0.86	59	1.29	250	0.93
Pancreas	1760	7.87	560	12.10	2320	8.59
Other Digestive Organs	384	1.72	96	2.00	480	1.77
Respiratory System	***15708***	***69.18***	***3169***	***67.22***	***18877***	***68.88***
Larynx	1148	5.03	316	6.62	1464	5.31
Lung & Bronchus	14209	62.58	2781	59.14	16990	62.03
Other Respiratory Organs	351	1.57	72	1.46	423	1.55
Bones and Joints	***144***	***0.67***	***31***	***0.55***	***175***	***0.64***
Soft Tissues	***459***	***2.09***	***114***	***2.09***	***573***	***2.10***
Melanoma of Skin	***2944***	***13.06***	***26***	***0.55***	***2970***	***10.77***
Breast	***15315***	***67.42***	***2905***	***59.38***	***18220***	***66.13***
Invasive Breast	13543	59.67	2641	53.97	16184	58.78
In Situ Breast	1772	7.75	264	5.41	2036	7.35

* Age-adjusted rates have been standardized to the 1990 U.S. Census Population.

** Rates based on 10 cases and less are unreliable and suppressed.

[1] "Other Race" is included with whites. See section "Incidence Rates".

Table 5. North Carolina Age-Adjusted Rates Per 100,000 Population* By Site and Race, 1990-93: All Sexes

Sites	White [1] #	White [1] Rate	Black #	Black Rate	Total #	Total Rates
Female Genital System	***6056***	***26.91***	***1390***	***28.57***	***7446***	***27.17***
Cervix Uteri	1122	5.03	482	9.58	1604	5.83
Uterus (Corpus, NOS)	2404	10.60	481	10.26	2885	10.53
Ovary	1723	7.65	283	5.85	2006	7.33
Other Female Genital Organs	807	3.63	144	2.88	951	3.48
Male Genital System	***14184***	***63.37***	***3543***	***77.47***	***17727***	***65.67***
Prostate	13553	60.45	3478	76.24	17031	63.12
Testis	503	2.36	25	0.43	528	1.93
Penis	111	0.49	36	0.72	147	0.53
Other Male Genital Organs	17	0.08	4	**	21	0.08
Urinary System	***6096***	***27.14***	***869***	***18.39***	***6965***	***25.65***
Bladder	3842	17.15	384	8.33	4226	15.63
Kidney & Renal Pelvis	2041	9.04	459	9.50	2500	9.13
Ureter	165	0.74	8	**	173	0.64
Other Urinary System	48	0.22	18	0.38	66	0.24
Eye & Orbit	***213***	***0.94***	***11***	***0.20***	***224***	***0.82***
Brain & CNS	***1400***	***6.35***	***180***	***3.30***	***1580***	***5.78***
Endocrine System	***926***	***4.18***	***163***	***3.15***	***1089***	***3.95***
Thyroid	820	3.69	131	2.57	951	3.44
Other Endocrine & Thymus	106	0.50	32	0.58	138	0.51
Lymphoma	***3533***	***15.88***	***537***	***10.39***	***4070***	***14.94***
Hodgkin's Disease	552	2.55	120	2.05	672	2.45
Non-Hodgkin's	2981	13.33	417	8.34	3398	12.49
Multiple Myeloma	***815***	***3.62***	***355***	***7.63***	***1170***	***4.31***
Leukemia	***1813***	***8.30***	***343***	***6.69***	***2156***	***7.99***
Acute Lymphocytic	263	1.33	48	0.75	311	1.18
Chronic Lymphocytic	439	1.96	80	1.74	519	1.92
Acute Myeloid	570	2.58	118	2.31	688	2.54
Chronic Myeloid	217	0.97	44	0.87	261	0.96
Other Leukemia	324	1.46	53	1.03	377	1.39
Ill-Defined & Unspecified	***2635***	***11.82***	***595***	***12.42***	***3230***	***11.94***

* Age-adjusted rates have been standardized to the 1990 U.S. Census Population.

** Rates based on 10 cases and less are unreliable and suppressed.

[1] "Other Race" is included with whites. See section "Incidence Rates".

Table 6. Race/Sex-Specific Cancer Incidence By County Of Residence

	White		*Black*		*American Indian*		*Other*	
County	**Male**	**Female**	**Male**	**Female**	**Male**	**Female**	**Male**	**Female**
North Carolina	11246	11064	2682	2312	68	65	50	64
Alamance	265	221	47	56	-	-	-	-
Alexander	60	42	5	5	-	-	-	-
Alleghany	11	15	-	1	-	-	-	-
Anson	33	37	12	22	-	1	-	-
Ashe	69	51	-	-	-	-	-	-
Avery	29	27	-	-	-	-	-	-
Beaufort	60	62	16	27	1	-	-	-
Bertie	12	12	21	16	-	-	-	-
Bladen	46	37	21	20	-	-	1	-
Brunswick	125	101	25	19	-	2	-	-
Buncombe	408	461	30	22	-	-	-	-
Burke	175	178	11	11	-	-	1	1
Cabarrus	165	160	19	25	-	-	-	1
Caldwell	143	143	6	6	-	-	-	-
Camden	7	7	2	1	-	-	-	-
Carteret	111	108	9	3	-	-	-	1
Caswell	27	23	19	11	-	-	-	-
Catawba	295	245	14	8	-	-	-	2
Chatham	71	62	22	15	-	-	-	-
Cherokee	48	32	1	-	-	-	-	-
Chowan	31	27	14	6	-	-	-	-
Clay	8	6	-	-	-	-	-	-
Cleveland	141	133	39	22	-	-	-	-
Columbus	67	79	35	32	4	-	-	2
Craven	157	130	62	36	-	-	2	-
Cumberland	205	235	91	77	3	4	3	8
Currituck	9	12	2	2	-	-	-	-
Dare	31	17	1	-	-	-	-	-
Davidson	247	236	22	19	-	-	1	1
Davie	51	71	5	3	-	-	-	-
Duplin	51	47	18	27	-	1	-	-
Durham	234	269	98	103	-	-	1	2
Edgecombe	53	59	72	55	-	-	-	-
Forsyth	562	539	132	112	-	-	-	3
Franklin	47	48	25	16	-	-	-	-
Gaston	346	333	55	39	-	-	-	1
Gates	5	4	2	4	-	-	-	-
Graham	17	17	-	-	1	1	-	-
Granville	37	44	36	21	-	-	-	-
Greene	26	19	12	7	-	-	-	-
Guilford	612	597	185	139	-	-	6	4
Halifax	87	63	71	43	1	-	1	-
Harnett	107	99	28	24	-	-	1	-
Haywood	87	104	-	-	-	-	-	-
Henderson	275	222	9	4	-	-	-	1
Hertford	17	16	18	21	-	-	-	-
Hoke	27	22	20	13	4	4	-	-
Hyde	11	9	5	6	-	-	-	-
Iredell	185	164	19	27	-	-	1	-
Jackson	49	57	2	1	-	1	1	-

Table 6. Race/Sex Specific Cancer Incidence By County Of Residence

	White		*Black*		*American Indian*		*Other*	
County	**Male**	**Female**	**Male**	**Female**	**Male**	**Female**	**Male**	**Female**
Johnston	139	142	38	29	-	-	1	1
Jones	20	15	13	4	-	-	-	-
Lee	75	84	22	14	-	-	-	-
Lenoir	120	96	57	44	-	3	2	3
Lincoln	120	105	6	8	-	-	-	-
McDowell	79	84	2	3	-	-	1	-
Macon	106	72	-	-	-	-	-	-
Madison	43	34	-	-	-	-	-	-
Martin	33	29	17	23	-	-	-	-
Mecklenburg	724	783	247	206	1	1	13	11
Mitchell	31	30	-	-	-	-	-	-
Montgomery	34	28	15	13	-	-	-	-
Moore	204	154	35	27	1	-	-	-
Nash	121	130	50	56	-	-	-	-
New Hanover	215	223	48	49	-	-	1	-
Northampton	10	28	22	14	-	-	-	-
Onslow	113	86	22	17	-	-	-	2
Orange	125	166	49	23	-	1	1	1
Pamlico	17	28	12	5	-	-	-	-
Pasquotank	41	33	21	16	-	-	-	-
Pender	51	39	24	17	-	-	-	-
Perquimans	23	11	4	5	-	-	-	-
Person	57	55	16	16	-	-	-	-
Pitt	119	128	62	53	-	-	1	-
Polk	21	37	4	3	-	-	-	-
Randolph	202	217	17	7	-	-	2	-
Richmond	71	65	24	24	4	-	-	-
Robeson	79	89	41	38	40	37	2	3
Rockingham	157	162	33	34	-	-	-	-
Rowan	126	170	16	23	-	-	-	-
Rutherford	109	102	9	11	-	-	-	-
Sampson	90	73	35	34	1	1	-	1
Scotland	38	31	19	17	-	-	-	1
Stanly	105	114	7	4	-	-	-	-
Stokes	86	73	2	5	-	-	-	-
Surry	149	149	4	6	-	-	-	-
Swain	28	29	-	1	6	6	-	-
Transylvania	77	72	4	1	-	-	-	-
Tyrrell	5	1	2	-	-	-	-	-
Union	125	137	19	17	-	-	-	1
Vance	63	37	34	33	-	-	-	-
Wake	567	668	129	132	1	1	7	9
Warren	14	11	24	13	-	1	-	-
Washington	18	22	10	6	-	-	-	-
Watauga	69	55	-	-	-	-	-	-
Wayne	142	132	68	69	-	-	-	2
Wilkes	158	130	3	8	-	-	-	-
Wilson	90	100	33	55	-	-	-	2
Yadkin	69	64	5	2	-	-	-	-
Yancey	26	39	-	-	-	-	-	-

APPENDICES

Appendix A

Primary Site Definitions

International Classification of Disease for Oncology (ICD-O-2) Codes for Newly Diagnosed Neoplasms

Primary Site	ICD-O-2
All Sites	**C000-C809**
Oral Cavity and Pharynx:	**C000-C148**
* Lips	C000-C009
* Tongue	C019-C029
* Salivary Glands	C079-C089
* Floor of Mouth	C040-C049
* Nasopharynx	C110-C119
* Oropharynx	C100-C109
* Hypopharynx	C129-C139, C141
* Other Mouth and Pharynx	C030-C039, C050-C069, C090-C099, C140, C142-C148
Digestive System:	**C150-C269, C480-C488**
* Esophagus	C150-C159
* Stomach	C160-C169
* Small Intestine	C170-C179
* Colon and Rectum	C180-C209, C260
* Anus, Anal Canal and Anorectum	C210-C218
* Liver and Intrahepatic Bile Duct	C220-C221
* Gallbladder	C239
* Pancreas	C250-C259
* Other Digestive Organs	C240-C249, C268-C269, C480-C488
Respiratory System:	**C300-C399**
* Larynx	C320-C329
* Lung and Bronchus	C340-C349
* Other Respiratory Organs	C300-C319, C339, C381-C399
Bones and Joints	**C400-C419**
Soft Tissues	**C380, C470-C479, C490-C499**
Skin	**C440-C449**
* Melanoma of Skin	C440-C449 (M8720-M8790)
* Other Skin	C440-C449 (Other histology)
Breast	**C500-C509**
* Invasive	C500-C509 (Behavior=3)
* In Situ	C500-C509 (Behavior=2)

Primary Site Definitions

Primary Site	ICD-O-2
Female Genital Organs:	**C530-C589**
* Cervix Uteri	C530-C539
* Uterus (Corpus, NOS)	C540-C559
* Ovary	C569
* Other Female Genital Organs	C510-C529, C570-C589
Male Genital Organs:	**C600-C639**
* Prostate	C619
* Testis	C620-C629
* Penis	C600-C609
* Other Male Genital Organs	C630-C639
Urinary System:	**C649-C689**
* Bladder	C670-C679
* Kidney and Renal Pelvis	C649-C659
* Ureter	C669
* Other Urinary System	C680-C689
Eye & Orbit	**C690-C699**
Brain & Central Nervous System (CNS):	**C700-C729**
Endocrine System:	**C379, C739-C759**
* Thyroid	C739
* Other Endocrine and Thymus	C379, C740-C759
Lymphomas:	**M9590-M9714**
* Hodgkin's Disease	M9650-M9667
* Non-Hodgkin's	M9590-M9595, M9670-M9714
Multiple Myeloma	**M9730-M9732**
Leukemia:	**M9800-M9941**
* Acute Lymphocytic	M9821
* Chronic Lymphocytic	M9823
* Acute Myeloid	M9861, M9867
* Chronic Myeloid	M9863, M9868
* Other Leukemia	M9800-M9820, M9822, M9824-M9860, M9862, M9864-M9866, M9870-M9941
Ill-Defined & Unspecified	**C760-C768, C809** **M9720-M9723, M9740-M9741, M9760-M9764, M9950-M9989** **C420-C424 (M8000-M9589)** **C770-C779 (M8000-M9589)**

NOTE: Except for lymphoma, multiple myeloma, and leukemia, all categorized sites exclude M9590-M9989 unless otherwise stated.

Appendix B

Formulae

Mathematical definitions:

Age Group (*i*):

0 - 4	**45 - 49**
5 - 9	**50 - 54**
10 - 14	**55 - 59**
15 - 19	**60 - 64**
20 - 24	**65 - 69**
25 - 29	**70 - 74**
30 - 34	**74- 79**
35 - 39	**80 - 84**
40 - 44	**85 +**

Age-specific rate:

$$r_{ig} = (c_{ig} / n_{ig}) * 100{,}000$$

where r_{ig} is the age-specific rate for age group (i) and/or gender group (g), c_{ig} is the count of cases for that age group (i) and/or gender group (g), and n_{ig} is the count of persons at risk (i.e., the population) for that age group (i) and/or gender group (g); rates in all tables are presented per 100,000.

Observed:

- Male Observed = Number of males with cancer
- Female Observed = Number of females with cancer

Expected:

$$E_g = \Sigma (r_{igt} * n_{igc})$$

where (t) is 1990-93 North Carolina population and (c) is 1993 specific county population.

- Male Expected = Sum of (North Carolina's 1990-93 age-specific cancer incidence rates for male (r_{igt}) **x** age-specific county male population for 1993 (n_{igc}))
- Female Expected = Sum of (North Carolina's 1990-93 age-specific cancer incidence rates for female (r_{igt}) **x** age-specific county female population for 1993 (n_{igc}))

Formulae

Age-adjusted rate:

$$A.A.R. = \sum_{i=0-4}^{85+} (w_i r_i)$$

where w_i is the proportion of the age group in the 1990 U.S. Standard and r_i. is the age-specific rate for age group.

Standardized Incidence Ratio:

95% Lower Confidence Limit (LCL):

$$LCL = [\sqrt{c_g} - (1.64 * 0.5)]^2 / E_g$$

95% Upper Confidence Limit (UCL):

$$UCL = [\sqrt{c_g} + (1.64 * 0.5)]^2 / E_g$$

Appendix C

*Population Total by County and Race: North Carolina, 1990**

County	White [1] Male	White [1] Female	Black Male	Black Female
North Carolina	2539752	2647361	688053	781423
Alamance	41841	45719	9656	11291
Alexander	12907	13019	833	863
Alleghany	4554	4872	86	91
Anson	5950	6397	5053	6069
Ashe	10689	11369	76	69
Avery	7353	7395	117	42
Beaufort	13969	15138	6037	7230
Bertie	3739	4110	5677	6870
Bladen	8373	9054	5107	6111
Brunswick	20744	21214	4346	4962
Buncombe	76587	84431	6724	7724
Burke	34573	36119	2581	2633
Cabarrus	42039	44509	6087	6890
Caldwell	32851	34085	1871	2038
Camden	2250	2199	730	759
Carteret	23963	24443	2162	2288
Caswell	5998	6226	4101	4356
Catawba	52613	55426	5108	5664
Chatham	14643	15358	4262	4683
Cherokee	9539	10304	173	189
Chowan	4018	4406	2281	2832
Clay	3460	3667	21	20
Cleveland	32373	34709	8353	9496
Columbus	16401	17906	6937	8277
Craven	30511	30000	10204	11172
Cumberland	98181	88202	44185	44827
Currituck	6181	6061	785	778
Dare	10994	11108	417	413
Davidson	56420	58237	5883	6538
Davie	12517	12974	1226	1277
Duplin	13053	13572	6146	7213
Durham	55345	59230	30861	37331
Edgecombe	11789	13068	14038	17643
Forsyth	95250	104755	30424	36070
Franklin	11535	12067	6009	6944
Gaston	73852	78682	10411	12391
Gates	2581	2552	2026	2171
Graham	3575	3609	0	1
Granville	11639	11769	7364	7616
Greene	4452	4410	3236	3332
Guilford	122361	133878	42394	49880
Halifax	13372	14533	13003	14695
Harnett	25604	26888	7367	8062

* Population total was obtained through CDC Wonder. See section "Incidence Rates."

[1]. "Other Race" is included with whites. See section "Incidence Rates."

*Population Total by County and Race: North Carolina, 1990**

County	White [1] Male	White [1] Female	Black Male	Black Female
Haywood	22074	24234	314	334
Henderson	32135	35166	1160	1226
Hertford	4528	5004	5921	7075
Hoke	6548	6432	4911	5034
Hyde	1810	1813	830	952
Iredell	38190	40192	6974	8027
Jackson	12726	13732	241	185
Johnston	32772	34364	6728	7928
Jones	2759	2977	1662	2026
Lee	15561	16486	4463	5051
Lenoir	16688	18014	10050	12589
Lincoln	22920	23615	2011	2150
McDowell	16704	17546	720	765
Macon	11088	12129	222	167
Madison	8268	8609	87	50
Martin	6587	7261	5182	6035
Mecklenburg	184868	194278	62602	73337
Mitchell	6919	7513	12	11
Montgomery	8751	8607	3052	3015
Moore	23183	25165	5136	5850
Nash	25418	27374	11217	13161
New Hanover	46436	50181	10947	13403
Northampton	4198	4244	5872	6485
Onslow	71113	48208	18505	12034
Orange	37732	41523	6935	8076
Pamlico	4113	4318	1333	1628
Pasquotank	9438	10310	5326	6333
Pender	9994	10191	4138	4768
Perquimans	3428	3610	1599	1841
Person	10173	10933	4324	4851
Pitt	35132	37527	16432	19843
Polk	6275	7148	501	557
Randolph	49219	51398	3076	3372
Richmond	15295	16354	6004	6945
Robeson	37910	41166	11916	14389
Rockingham	32901	35685	8153	9497
Rowan	45364	47678	8509	9389
Rutherford	24379	26189	3086	3475
Sampson	15266	16286	7238	8548
Scotland	10337	11289	5468	6775
Stanly	22181	23667	2834	3193
Stokes	17309	17989	1038	1047
Surry	28347	30717	1286	1534
Swain	5467	5634	168	27
Transylvania	11881	12466	601	593
Tyrrell	1116	1194	715	831
Union	35114	36034	6420	7138

* Population total was obtained through CDC Wonder. See section "Incidence Rates."

[1]. "Other Race" is included with whites. See section "Incidence Rates."

*Population Total by County and Race: North Carolina, 1990 **

County	White [1] Male	White [1] Female	Black Male	Black Female
Vance	10195	11218	8201	9427
Wake	168156	171827	42233	47620
Warren	3615	3789	4668	5201
Washington	3647	3964	3004	3384
Watauga	17687	18558	414	358
Wayne	36196	34654	15946	18051
Wilkes	27762	28855	1328	1512
Wilson	19647	21427	11258	13796
Yadkin	14195	15060	640	666
Yancey	7398	7889	84	67

* Population total was obtained through CDC Wonder. See section "Incidence Rates."

[1]. "Other Race" is included with whites. See section "Incidence Rates."

Appendix D

U.S Standard Million Population by Age, 1990

All Ages	249,402,268
0 - 4	18,849,719
5 - 9	18,062,652
10 - 14	17,188,872
15 - 19	17,750,353
20 - 24	19,133,050
25 - 29	21,232,563
30 - 34	21,906,690
35 - 39	19,975,156
40 - 44	17,790,111
45 - 49	13,820,012
50 - 54	11,367,747
55 - 59	10,472,862
60 - 64	10,618,606
65 - 69	10,076,460
70 - 74	8,021,413
75 - 79	6,145,179
80 - 84	3,933,640
85 +	3,057,183

Source: U.S. Bureau of the Census, Census of Population: 1990.

Appendix E

NORTH CAROLINA CENTRAL CANCER REGISTRY INCIDENCE REPORT

(DO NOT WRITE IN SHADED BOXES.)

N. C. Department of Environment, Health, and Natural Resources
State Center for Health and Environmental Statistics

NCCCR #

1. Reporting Facility: _____ 2. Facility ID Number: _____

3. Name: _____ (last) (first) (MI) (maiden)

4. Residence: _____ (street)

(city) (state) (zip code)

5. County of Residence at Diagnosis: ___

6. Birth Date: MM DD YEAR

7. Race:
1 = White
2 = Black
3 = Am. Ind., Cherokee
4 = Am. Ind., Lumbee
5 = Am. Ind., NOS
6 = Oriental/Asian
8 = Other
9 = Unknown

8. Sex
1 = Male
2 = Female
8 = Other

9. Hispanic Origin
0 = No
1 = Yes
9 = Unknown

10. Social Security Number:

11. Place of Birth: (State or Country)

12. Medical Record No.:

13. Tumor Registry No.:

14. Class of Case:
0 = Diagnosed at this facility, treated elsewhere
1 = Diagnosed & treated at this facility
2 = Diagnosed elsewhere, treated at this facility
3 = Diagnosed & treated elsewhere
5 = FIRST Dx at autopsy
9 = Unknown

15. Other Primary Cancers?
0 = No
1 = Yes

If YES, specify other primary cancer(s):

Previous primary site(s) Dx date

16. Date of initial diagnosis: MM DD YEAR

17. Date of admission for this cancer: (Inpatient or Outpatient) MM DD YEAR

18. Date of last contact: MM DD YEAR

19. Status:
0 = Dead
1 = Alive

20. Physician's Name:

Last First MI

Abstractor's Initials: _____ Date: _____

21. Primary Site: ___.___

22. Paired Organ, Primary Site Only:
0 = Not a paired site
1 = Right
2 = Left
3 = One side only, NOS
4 = Bilateral involvement

23. Histology:

24. Grade of Tumor:
1 = Well differentiated
2 = Mod. well differentiated
3 = Poorly differentiated
4 = Undifferentiated/Anaplastic
5 = T-cell
6 = B-cell
7 = Null cell
9 = Unknown/not stated

25. Diagnostic Confirmation:
1 = Positive histology
2 = Positive cytology
5 = Positive laboratory test/Tumor marker
6 = Direct visualization
7 = Radiography
8 = Clinical only
9 = Unknown

26. Stage of Disease:
0 = In-situ
1 = Localized
2 = Regional Direct Ext.
3 = Regional nodes
4 = Reg. direct & Reg. nodes
5 = Reg. NOS
7 = Distant/systemic
8 = BENIGN
9 = Unknown/unstaged

27. Hospital Referred From:

Hospital Name

City State

28. Hospital Referred To:

Hospital Name

City State

DEHNR 3650 (Revised 9/91)
Cancer Surveillance (Review 9/93)

Distribution: White, Cancer Surveillance -- Yellow, Facility Files

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